Aircraft
Wires and Cables
Introduction

Since 1938 and the creation of Filotex in Draveil (France), Nexans has been a driving force in the world of aerospace cables. Today, Nexans is proud to be able to offer a complete range of aircraft wires and cables – which is also the largest in the industry.

From high temperature cables to low-loss coaxial cables and from data-buses for In Flight Entertainment Systems to fire resistant engine wires, Nexans covers every aircraft electrical application with a range so wide that you will be able to rationalize your purchasing policy.

It goes without saying that our only concern is to provide you with the cable solution you need and – thanks to a combined expertise in the USA and Europe in technologies as diverse as extruded cables (e.g. irradiated ETFE) and tape wrapped cables (e.g. Polyimide/PTFE composites) – we can do it.

About Nexans

Nexans is the worldwide leader in the cable industry. The Group brings an extensive range of advanced copper and optical fiber cable solutions to the infrastructure, industry and building markets.

Nexans cables and cable systems can be found in every area of people’s lives, from telecommunications and energy networks to aeronautics, aerospace, building, automobile, petrochemicals, medical applications, etc.

Operating in 28 countries, Nexans employs 17 150 people and had sales of euros 4.3 billion in 2002. Nexans is listed on the Paris stock exchange.

More information at www.nexans.com
A comprehensive offer

**Coxial cables**
for high frequency transmission (radio/radar, anti-collision)

**Hook-up wires & data bus cables**
in passenger area (in-flight entertainment)

**Hook-up wires**
in wings

**Hook-up wires & data bus cables**
for fuselage

**Power cables**
for power supply unit

**Fire resistant cables**
in engine (core and nacelle)

**Special cables**
in engine environment (connections to the engine)

**Special cables assemblies**
for satellite communication

**Hook-up wires**
for landing gear

**Hook-up wires & data bus cables**
in cockpit

Photos: © Airbus Industrie
## Catalogue – Issue 2 – 01/10/2003

<table>
<thead>
<tr>
<th>Guideline for aerospace cables</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product families:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Part 1</strong> Hook-up wires for Civil, Military aircraft and helicopters</td>
<td>Page 17</td>
</tr>
<tr>
<td><strong>Part 2</strong> Cables for power transmission</td>
<td>Page 71</td>
</tr>
<tr>
<td><strong>Part 3</strong> Nacelles and engines: high temperature, fire resistant/proof cables</td>
<td>Page 79</td>
</tr>
<tr>
<td><strong>Part 4</strong> Coaxial cables for high frequency transmission</td>
<td>Page 155</td>
</tr>
<tr>
<td><strong>Part 5</strong> Data bus and high speed transmission cables</td>
<td>Page 179</td>
</tr>
<tr>
<td><strong>Part 6</strong> Special cables</td>
<td>Page 207</td>
</tr>
<tr>
<td><strong>Part 7</strong> Optical cables</td>
<td>Page 217</td>
</tr>
<tr>
<td><strong>-</strong> Space cables</td>
<td></td>
</tr>
</tbody>
</table>

See Space catalogue
Guideline for aerospace cables
## Hook-up wires for Civil, Military Aircraft and Helicopters

Voltage rating: 600 Volts RMS / Maximum operating frequency: 2000 Hz

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Description</th>
<th>Maximum operating temperature</th>
<th>Arc tracking resistant</th>
<th>Single core</th>
<th>Multi-core</th>
<th>Screened</th>
<th>Sheathed</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>JN 1007</td>
<td>• Arc tracking resistant, Flexible light weight wires.</td>
<td>150 180 210 200 260</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JN 1018</td>
<td>• Arc tracking resistant, Flexible light weight wires.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>JN 1019</td>
<td>• Arc tracking resistant, Flexible light weight wires.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>JN 1026</td>
<td>• Arc tracking resistant, Flexible light weight wires with EMI protection.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>VG 95218-20 type H (FX 5301)</td>
<td>• Arc tracking resistant, Flexible light weight wires, Silver plated conductors.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>29</td>
<td></td>
</tr>
<tr>
<td>VG 95218-22 type E VG 95218-23 type D (FX 5303)</td>
<td>• Arc tracking resistant, Single core and multicore.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>ABS 0949 AD AWG 24 to 4</td>
<td>• Arc tracking resistant, Light weight wires, Nickel copper clad aluminium.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>ABS 0949 AD AWG 3 to 000</td>
<td>• Arc tracking resistant, Light weight wires, Nickel aluminium.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>ABS 1354 ADA, ADB, ADC, ADD</td>
<td>• Arc tracking resistant, Light weight wires, Non UV markable, Nickel copper clad aluminium, Single core and multicore.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>ABS 1356</td>
<td>• Arc tracking resistant, Single core and multicore, UV laser printable, Nickel copper clad aluminium.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>BAS 8710</td>
<td>• Cable for airframe, general purpose.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>43</td>
<td></td>
</tr>
<tr>
<td>BAS 8711, 8712, 8713</td>
<td>• Cable for airframe, general purpose.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>ASN-E0261 CF / EN 2266</td>
<td>• Flexible light weight wires, Polyimide insulation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>47</td>
<td></td>
</tr>
<tr>
<td>ASN-E0264 PF ASN-E0266 QF ASN-E0268 RF / EN 2266</td>
<td>• Flexible light weight wires, Polyimide insulation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>ASN-E0270 SJ ASN-E0272 TK ASN-E0274 UD / EN 2713</td>
<td>• Flexible light weight cables, Polyimide insulation, UV markable jacket, Single core and multicore.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>PFG, QFG, RFG</td>
<td>• Flexible light weight wires, Polyimide insulation, UV markable jacket.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>53</td>
<td></td>
</tr>
</tbody>
</table>
## Hook-up wires for Civil, Military Aircraft and Helicopters

Voltage rating: 600 Volts RMS / Maximum operating frequency: 2000 Hz

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Description</th>
<th>Maximum operating temperature</th>
<th>Arc tracking resistant</th>
<th>Single core</th>
<th>Multi-core</th>
<th>Screened</th>
<th>Sheathed</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>150 180 210 260</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SJB, TKB, UDB, VLB</td>
<td>Flexible light weight wires, Polyimide insulation, UV markable jacket, Single core and multicore.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>55</td>
</tr>
<tr>
<td>EN 2267-008A DM</td>
<td>Arc tracking resistant, UV laser printable, Medium weight, Composite insulation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>57</td>
</tr>
<tr>
<td>EN 2267-007 PN, QL, RK</td>
<td>Arc tracking resistant, UV laser printable, Medium weight, Composite insulation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>59</td>
</tr>
<tr>
<td>EN 2714-011 GJ, MH, UU, VV</td>
<td>Arc tracking resistant, UV laser printable, Medium weight, Composite insulation, Single core and multicore.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>61</td>
</tr>
<tr>
<td>EN 2267-010A DR</td>
<td>Arc tracking resistant, UV laser printable, Light weight, Composite insulation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>63</td>
</tr>
<tr>
<td>EN 2267-009 DRB, DRC, DRD</td>
<td>UV laser printable, Light weight, Arc tracking resistant, Composite insulation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>65</td>
</tr>
<tr>
<td>EN 2714-013 MLA, MLB, MLC, MLD</td>
<td>UV laser printable, Light weight, Arc tracking resistant, Composite insulation, Single core and multicore.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>67</td>
</tr>
<tr>
<td>EN 2714-014 MME, MMF, MM6</td>
<td>UV laser printable, Light weight, Arc tracking resistant, Composite insulation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>69</td>
</tr>
<tr>
<td>MIL-W-16878/4 to 28, MIL-W-22759/5 to 31, MIL-W-22759/32 to 46, MIL-W-22759/80 to 92, MIL-DTL-81381/7 to 22</td>
<td>Aerospace composite wires (see MIL-SPEC Product Selection Catalogue)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>71</td>
</tr>
</tbody>
</table>

- Nexans
# Cables for power transmission

Voltage rating: 600 Volts RMS

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Description</th>
<th>Maximum operating temperature</th>
<th>Screened</th>
<th>Sheathed</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>150</td>
<td>180</td>
<td>260</td>
<td></td>
</tr>
<tr>
<td>BMS 13-35</td>
<td>Polyimide insulated aluminium wire</td>
<td>⬤</td>
<td>No</td>
<td>No</td>
<td>73</td>
</tr>
<tr>
<td>ASN-E0438 YV</td>
<td>Flexible nickel plated aluminium light weight wires, single core, large sizes</td>
<td>⬤</td>
<td>No</td>
<td>No</td>
<td>75</td>
</tr>
<tr>
<td>NSA 935 308 YU</td>
<td>Flexible aluminium light weight wires, polyamide insulation</td>
<td>⬤</td>
<td>No</td>
<td>No</td>
<td>77</td>
</tr>
</tbody>
</table>
# Nacelles and engines:
## high temperature, fire resistant/fire proof cables

Voltage rating: 600 Volts RMS (except for ESW 1100,1101, 1102, 1700, 1701, 1702: 200 Volts)

Maximum operating frequency: 2000 Hz

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Nexans reference</th>
<th>Description</th>
<th>Maximum operating temperature</th>
<th>Single core</th>
<th>Multi-core</th>
<th>Screened</th>
<th>Sheathed</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>250</td>
<td>260</td>
<td>280</td>
<td>300+</td>
<td></td>
</tr>
<tr>
<td>VG 95218-20 type J</td>
<td>FX 5400</td>
<td>Single wire, High temperature, General purpose.</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td>81</td>
</tr>
<tr>
<td>NSA 935 131 DG / EN 2854</td>
<td></td>
<td>Single wire, High temperature, General purpose.</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td>83</td>
</tr>
<tr>
<td>BMS 13-58 Type 1 &amp; Type 5</td>
<td></td>
<td>Single wire, High temperature, General purpose.</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td>85</td>
</tr>
<tr>
<td>2100</td>
<td></td>
<td>Flexible cables for high ambient temperatures.</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td>87</td>
</tr>
<tr>
<td>2102</td>
<td></td>
<td>Flexible cables for high ambient temperatures, Lightweight cables.</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td>89</td>
</tr>
<tr>
<td>2103</td>
<td></td>
<td>Flexible cables for high ambient temperatures.</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td>91</td>
</tr>
<tr>
<td>1050</td>
<td></td>
<td>Screened cables for high ambient temperatures, Single core and multicore.</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td>93</td>
</tr>
<tr>
<td>1052</td>
<td></td>
<td>Screened cables for high ambient temperatures, Single core and multicore.</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td>95</td>
</tr>
<tr>
<td>1053</td>
<td></td>
<td>Screened cables for high ambient temperatures, Single core and multicore.</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td>97</td>
</tr>
<tr>
<td>MIL W 25038/1 (QPL) (mono) (multi on request)</td>
<td>TMF</td>
<td>High temperature fire resistant wires.</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td>99</td>
</tr>
<tr>
<td>MIL W 25038/3 (QPL) (mono) (multi on request)</td>
<td>TMF VRA-US TMF VR-US</td>
<td>High temperature fire resistant cables.</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td>101</td>
</tr>
<tr>
<td>MIL W 25038/3 (QPL) (mono) (multi on request)</td>
<td>FRM-A-US FRM-US</td>
<td>High temperature fire resistant cables.</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td>103</td>
</tr>
<tr>
<td>MIL W 25038/3, MIL DTL 27500 F + 1 N 06</td>
<td>M27500A** J</td>
<td>High temperature fire resistant, Single core and multicore.</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td>105</td>
</tr>
<tr>
<td>MIL W 25038/3, MIL DTL 27500 F + N 24</td>
<td>M27500A** J</td>
<td>High temperature fire resistant shielded and jacketed cables.</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td>107</td>
</tr>
<tr>
<td>BMS 13-55 Type 2 Class 1</td>
<td></td>
<td>High temperature fire resistant wires.</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td>109</td>
</tr>
<tr>
<td>ASN-E0437 DL / EN 2346-003</td>
<td></td>
<td>Fire resistant wire, Normal weight.</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td>111</td>
</tr>
<tr>
<td>EN 2346-005 / DW</td>
<td></td>
<td>Fire resistant wire, Light weight.</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
<td>113</td>
</tr>
</tbody>
</table>
## Nacelles and engines:
### high temperature, fire resistant/fire proof cables

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Nexans reference</th>
<th>Description</th>
<th>Maximum operating temperature</th>
<th>Single core</th>
<th>Multi-core</th>
<th>Screened</th>
<th>Sheathed</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 4608-004 / GPA, GPB, GPC</td>
<td>• Fire resistant cable, • Light weight, • Single core and multicore.</td>
<td>250 260 280 300 +</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>115</td>
</tr>
<tr>
<td>ESW 1100-010-XXX</td>
<td>• Filter effect cable, • High temperature wire.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>117</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESW 1101-+++-XXX</td>
<td>• Filter effect cable, • High temperature wire.</td>
<td></td>
<td>●</td>
<td>119</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESW 1102-+++-XXX</td>
<td>• Filter effect cable, • High temperature wire, • Single core and multicore.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>121</td>
<td></td>
</tr>
<tr>
<td>ESW 1700-010-XXX</td>
<td>• Thermocouple, • Filter effect cable, • High temperature wire.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>123</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESW 1701-010-XXX</td>
<td>• Thermocouple, • Filter effect cable, • High temperature wire.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>125</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESW 1702-022-XXX</td>
<td>• Thermocouple extension, • Filter effect cable, • Twin core.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>127</td>
<td></td>
</tr>
<tr>
<td>ESW 1200-010-XXX ESW 1201-010-XXX</td>
<td>• Fire resistant cable.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>129</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESW 1202-+++-XXX ESW 1203+++-XXX</td>
<td>• Fire resistant cable, • Single core and multicore.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>131</td>
<td></td>
</tr>
<tr>
<td>ESW 1250-010-XXX ESW 1251-010-XXX</td>
<td>• Fireproof cable, • Single core.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>133</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESW 1252+++-XXX ESW 1253+++-XXX</td>
<td>• Fireproof cable, • Single core and multicore.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>135</td>
<td></td>
</tr>
<tr>
<td>ESW 1254-010-002</td>
<td>• Fireproof cable, • Single core.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>137</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESW 1254-022-002</td>
<td>• Fireproof cable, • Two twisted cores.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>139</td>
<td></td>
</tr>
<tr>
<td>ESW 1600-010-XXX ESW 1601-010-XXX</td>
<td>• Thermocouple, • Fire resistant cable.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>141</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESW 1602-022-XXX</td>
<td>• Thermocouple, • Fire resistant cable, • Two twisted cores.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>143</td>
<td></td>
</tr>
<tr>
<td>RMS 302, 322, 323, 324, 326, 327, 328, 329, 332</td>
<td>• Wire electric fluorocarbon insulated abrasion resistant for nacelle.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>145</td>
<td></td>
</tr>
<tr>
<td>3000A</td>
<td>• Fire resistant cable.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>149</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMS 13-67</td>
<td>• Very high temperature, • Fire resistant.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>151</td>
<td></td>
</tr>
<tr>
<td>ET 124585</td>
<td>• Very high temperature, • Fire resistant.</td>
<td></td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>153</td>
<td></td>
</tr>
</tbody>
</table>
## Coaxial cables for high frequency transmission

For information on **KX/RG coaxial cables** and **MIL C17 specifications**, see our standard catalogue.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Nexans reference</th>
<th>Description</th>
<th>Maximum operating temperature</th>
<th>Impedance</th>
<th>Maximum Operating frequency (MHz)</th>
<th>Maximum Operating voltage</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 124962</td>
<td>ET 124962</td>
<td>Laser UV miniature coaxial cable</td>
<td>●</td>
<td></td>
<td>3000</td>
<td>250</td>
<td>157</td>
</tr>
<tr>
<td>SP 124963</td>
<td>ET 124963</td>
<td>Laser UV miniature coaxial cable</td>
<td>●</td>
<td></td>
<td>3000</td>
<td>250</td>
<td>159</td>
</tr>
<tr>
<td>SP 124964</td>
<td>ET 124964</td>
<td>Laser UV miniature triaxial cable</td>
<td>●</td>
<td></td>
<td>3000</td>
<td>250</td>
<td>161</td>
</tr>
<tr>
<td>SP 124965</td>
<td>ET 124965</td>
<td>Laser UV miniature triaxial cable</td>
<td>●</td>
<td></td>
<td>3000</td>
<td>250</td>
<td>163</td>
</tr>
<tr>
<td>EN 4604-003 WZ</td>
<td></td>
<td>50 ohms coaxial cable</td>
<td>●</td>
<td></td>
<td>3000</td>
<td>1700</td>
<td>165</td>
</tr>
<tr>
<td>EN 4604-004 WS</td>
<td></td>
<td>50 ohms coaxial cable</td>
<td>●</td>
<td></td>
<td>3000</td>
<td>1300</td>
<td>167</td>
</tr>
<tr>
<td>EN 4604-005 WL</td>
<td></td>
<td>75 ohms coaxial cable</td>
<td>●</td>
<td></td>
<td>3000</td>
<td>900</td>
<td>-</td>
</tr>
<tr>
<td>EN 4604-006 WM</td>
<td></td>
<td>50 ohms coaxial cable</td>
<td>●</td>
<td></td>
<td>5000</td>
<td>750</td>
<td>169</td>
</tr>
<tr>
<td>EN 4604-007 WN</td>
<td></td>
<td>50 ohms coaxial cable</td>
<td>●</td>
<td></td>
<td>5000</td>
<td>1000</td>
<td>171</td>
</tr>
<tr>
<td>EN 4604-008 WD</td>
<td></td>
<td>50 ohms coaxial cable</td>
<td>●</td>
<td></td>
<td>8000</td>
<td>1000</td>
<td>-</td>
</tr>
<tr>
<td>PAN 6422</td>
<td></td>
<td>50 ohms coaxial cables, UV laser</td>
<td>●</td>
<td></td>
<td>1000</td>
<td>From 750 to 3700</td>
<td>173</td>
</tr>
<tr>
<td>ASN-E0293 XF</td>
<td></td>
<td>50 ohms coaxial cable</td>
<td>●</td>
<td></td>
<td>3000</td>
<td>1400</td>
<td>175</td>
</tr>
<tr>
<td>NSA 935 344 XE</td>
<td></td>
<td>50 ohms coaxial cable</td>
<td>●</td>
<td></td>
<td>3000</td>
<td>900</td>
<td>177</td>
</tr>
</tbody>
</table>
### Data bus and high speed transmission cables

**Voltage rating:** from 250 to 1600 Volts RMS

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Nexans reference</th>
<th>Description</th>
<th>Maximum operating temperature</th>
<th>Impedance (ohms)</th>
<th>Maximum Operating voltage</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>125 150 200 260</td>
<td>75 77 100 125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABS 0972 KB 24</td>
<td>ET 2PC236</td>
<td>100 ohms, shielded quad</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>181 209</td>
<td></td>
</tr>
<tr>
<td>SP 124960</td>
<td>ET 124960</td>
<td>Data bus cable</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>183 211</td>
<td></td>
</tr>
<tr>
<td>SP 124961</td>
<td>ET 124961</td>
<td>Data bus cable</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>185 213</td>
<td></td>
</tr>
<tr>
<td>SP 96770 ASNE 0479 WJ</td>
<td>ET 96770-01 ET 96770-02</td>
<td>Data bus cable</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>187 215</td>
<td></td>
</tr>
<tr>
<td>PAN 6421 ZA002</td>
<td>ET 65529</td>
<td>Data bus cable</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>189 217</td>
<td></td>
</tr>
<tr>
<td>ASNE 0259 HE</td>
<td>ET 63247</td>
<td>Data bus cable</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>191 219</td>
<td></td>
</tr>
<tr>
<td>ASN-E0849 HJ 26</td>
<td></td>
<td>Twinoxial cable high immunity</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>193 221</td>
<td></td>
</tr>
<tr>
<td>SP 554</td>
<td>ET 61333</td>
<td>Data bus cable</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>195 223</td>
<td></td>
</tr>
<tr>
<td>SP 69899 ASNE 0811 WY</td>
<td>ET 69899-01 ET 69899-02</td>
<td>Data bus cable</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>197 225</td>
<td></td>
</tr>
<tr>
<td>ABS 0386 WF</td>
<td>ET 96897</td>
<td>Data bus cable</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>199 227</td>
<td></td>
</tr>
<tr>
<td>ASNE 0290 XM</td>
<td></td>
<td>Data bus cable</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>201 229</td>
<td></td>
</tr>
<tr>
<td>SP 69794 EN 3375-004-C WJ</td>
<td>ET 69794-01 ET 69794-02</td>
<td>Data bus cable</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>203 231</td>
<td></td>
</tr>
<tr>
<td>EN 4608-005-B 002</td>
<td></td>
<td>Data bus cable</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>205 233</td>
<td></td>
</tr>
</tbody>
</table>

### Special cables

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Nexans reference</th>
<th>Description</th>
<th>Maximum operating temperature</th>
<th>Maximum Operating voltage</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>200 260</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ET 124401</td>
<td></td>
<td>Low noise screened pair cable, transmission cable</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>209 235</td>
</tr>
<tr>
<td>NSA 935306 YK</td>
<td>ET 86891</td>
<td>Low noise screened pair cable, transmission cable</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>211 237</td>
</tr>
<tr>
<td>MBBN 3320 YH +++</td>
<td>ET 96532 ET 96533</td>
<td>Thermocouple extension. Nickel chromium/nickel aluminium</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>213 239</td>
</tr>
<tr>
<td>ASN-E0409 BG</td>
<td></td>
<td>Flight test wire, UV laser printable.</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
<td>215 241</td>
</tr>
<tr>
<td>ASN-E0410 SU</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0411 TV</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0412 VF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SATCOM CORDS</td>
<td></td>
<td>Available on request : application at 1.6 GHZ</td>
<td>- - - - - - - - - - - -</td>
<td>- - - - - - - - - - - -</td>
<td>-  -</td>
</tr>
</tbody>
</table>
## Optical cable

Maximum operating temperature: 125°C

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Nexans reference</th>
<th>Description</th>
<th>Insulation</th>
<th>Sheath</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS 0963-003 LF</td>
<td>ET 132126</td>
<td>Multimode fibre optic cable</td>
<td>Zero halogen copolymer, high temperature</td>
<td>Polymer aromatic fibre braid + zero halogen</td>
<td>219</td>
</tr>
</tbody>
</table>

## Space cables

Maximum operating temperature: 200°C

### See Space catalogue

#### Hook-up wires

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Nexans reference</th>
<th>Description</th>
<th>Maximum operating temperature</th>
<th>Single core</th>
<th>Multi-core</th>
<th>Screened</th>
<th>Sheathed</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 359 3901/001</td>
<td>1871 - 871</td>
<td>Space cables polyimide insulated normal weight</td>
<td>200</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>SP 358 3901/002</td>
<td>1872 - 872</td>
<td>Space cables polyimide insulated light weight</td>
<td>200</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>SP 199 3901/013</td>
<td>MTV - BTV</td>
<td>Flexible space cables PTFE insulated</td>
<td>200</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>SP 773 5691</td>
<td>1995 - 995</td>
<td>Space cables PTFE insulated</td>
<td>200</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>SP 776 5685</td>
<td>1996</td>
<td>Space cables PTFE insulated</td>
<td>200</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Coaxial cables

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Nexans reference</th>
<th>Description</th>
<th>Maximum operating temperature</th>
<th>Impedance (ohms)</th>
<th>Operating voltage (volts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 189 3902/001.01</td>
<td>50 CIS</td>
<td>Flexible space coaxial cable</td>
<td>200</td>
<td>50</td>
<td>900</td>
</tr>
<tr>
<td>SP 781 3902/001.02</td>
<td>50 CIS DTR</td>
<td>Flexible space coaxial cable</td>
<td>200</td>
<td>50</td>
<td>900</td>
</tr>
<tr>
<td>SP 727 3902/001.03</td>
<td>50 CIS BLG</td>
<td>Flexible space coaxial cable</td>
<td>200</td>
<td>50</td>
<td>900</td>
</tr>
</tbody>
</table>

These examples represent an overview of our expertise. Indeed, our development and design engineers are at your disposal to provide their experience in customising any of our products to meet your specific requirements.
Part 1

Hook-up wires for Civil, Military Aircraft and Helicopters
Type " JN 1007 "

Flexible Light Weight Wires
Unscreened and Unsheathed Single Core Types
150°C Operating Temperature Light Weight
Arc Tracking Resistant Cables

Characteristics
- Voltage rating : 600 Volts RMS
- Operating temperature : -65°C to +150°C.(Ambient + Rise)
- Operating frequency : up to 2000 Hz
- Dimensions and weight : see table on reverse of this data sheet
- Very Good Resistance to Aircraft Fluids
- Arc Tracking Resistant

Identification
- Colours : White (Size 004 : Pale blue)
- Marking : JN1007 CH *** FR F ++
  *** = Size code
  FR = Country of Origin  (FR = France)
  F = Manufacturer          (F = Filotex)
  ++ = Year of Production (i.e. 99 = 1999)

Applications
- Designed for general Purpose Aircraft Wiring Applications.

Specifications
- EUROFIGHTER SPE-J-920-A-0061 issue KY (March 1999)
- EFA : J61.010

CONSTRUCTION
CONDUCTOR
1) Stranded Conductor Made up of Nickel plated Copper.
   Size code 002 is High strength copper alloy conductor.

INSULATION
2) PTFE Tape
3) Polyimide Tape
4) UV Laser markable FEP Lacquer Top coat
## DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>US Stranding (Nbr x Diam. of Strands in mm)</th>
<th>Conductor Diameter</th>
<th>Maximum DC Resistance at 20°C (68°F) (Ohms/Km)</th>
<th>Finished Wire Diameter</th>
<th>Maximum Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JN 1007 CH 002</td>
<td>24 19 x 0.12</td>
<td>0.55</td>
<td>0.59</td>
<td>114</td>
<td>0.93</td>
</tr>
<tr>
<td>JN 1007 CH 004</td>
<td>22 19 x 0.15</td>
<td>0.70</td>
<td>0.74</td>
<td>60</td>
<td>1.08</td>
</tr>
<tr>
<td>JN 1007 CH 006</td>
<td>20 19 x 0.20</td>
<td>0.94</td>
<td>0.99</td>
<td>33.20</td>
<td>1.30</td>
</tr>
<tr>
<td>JN 1007 CH 010</td>
<td>18 19 x 0.25</td>
<td>1.18</td>
<td>1.24</td>
<td>21.10</td>
<td>1.54</td>
</tr>
<tr>
<td>JN 1007 CH 012</td>
<td>16 19 x 0.30</td>
<td>1.41</td>
<td>1.49</td>
<td>14.50</td>
<td>1.78</td>
</tr>
<tr>
<td>JN 1007 CH 020</td>
<td>14 19 x 0.25</td>
<td>1.65</td>
<td>1.74</td>
<td>10.90</td>
<td>2.02</td>
</tr>
<tr>
<td>JN 1007 CH 030</td>
<td>12 37 x 0.32</td>
<td>2.12</td>
<td>2.22</td>
<td>6.80</td>
<td>2.47</td>
</tr>
</tbody>
</table>
Type "JN 1018"

Flexible Light Weight Wires
Unscreened and Sheathed multicore Types
150°C Operating Temperature Light Weight
Arc Tracking Resistant Cables

Characteristics
- Voltage rating: 600 Volts RMS
- Operating temperature: -65°C to +150°C (Ambient + Rise)
- Operating frequency: up to 2000 Hz
- Dimensions and weight: see table on reverse of this data sheet
- Very Good Resistance to Aircraft Fluids
- Arc Tracking Resistant

Identification
- Core Colours
- Sheath colours and Marking: see table on reverse of this data sheet
  FR = Country of Origin (FR = France)

Applications
- Designed for general Purpose Aircraft Wiring Applications

Specifications
- EUROFIGHTER SPE-J-920-A-0061 issue KY (March 1999)
- EFA: J61.014

PRODUCT REFERENCES

JN1018
JN1007
JN1019

CONSTRUCTION

CORES
1. Type JN 1007

JACKET
2. Polyimide Tapes
3. UV Laser markable FEP Lacquer Top coat
### DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>US AWG</th>
<th>Nbr of Cores</th>
<th>Diameter (mm)</th>
<th>Weight (Kg/Km)</th>
<th>Resistance at 20°C (68°F) of Cores (Ohms/Km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JN 1018 PC 002</td>
<td>24</td>
<td>2</td>
<td>2.14</td>
<td>2.30</td>
<td>6.95</td>
</tr>
<tr>
<td>JN 1018 PC 004</td>
<td>22</td>
<td>2</td>
<td>2.44</td>
<td>2.60</td>
<td>9.80</td>
</tr>
<tr>
<td>JN 1018 PC 006</td>
<td>20</td>
<td>2</td>
<td>2.90</td>
<td>3.06</td>
<td>15.40</td>
</tr>
<tr>
<td>JN 1018 PC 010</td>
<td>18</td>
<td>2</td>
<td>3.38</td>
<td>3.55</td>
<td>22.30</td>
</tr>
<tr>
<td>JN 1018 PC 012</td>
<td>16</td>
<td>2</td>
<td>3.86</td>
<td>4.04</td>
<td>30.50</td>
</tr>
<tr>
<td>JN 1018 PC 020</td>
<td>14</td>
<td>2</td>
<td>4.34</td>
<td>4.53</td>
<td>39.70</td>
</tr>
<tr>
<td>JN 1018 PC 030</td>
<td>12</td>
<td>2</td>
<td>5.26</td>
<td>5.46</td>
<td>62.10</td>
</tr>
<tr>
<td>JN 1018 QC 002</td>
<td>24</td>
<td>3</td>
<td>2.29</td>
<td>2.47</td>
<td>9.95</td>
</tr>
<tr>
<td>JN 1018 QC 004</td>
<td>22</td>
<td>3</td>
<td>2.61</td>
<td>2.77</td>
<td>14.20</td>
</tr>
<tr>
<td>JN 1018 QC 006</td>
<td>20</td>
<td>3</td>
<td>3.11</td>
<td>3.27</td>
<td>22.50</td>
</tr>
<tr>
<td>JN 1018 QC 010</td>
<td>18</td>
<td>3</td>
<td>3.63</td>
<td>3.80</td>
<td>32.70</td>
</tr>
<tr>
<td>JN 1018 QC 012</td>
<td>16</td>
<td>3</td>
<td>4.15</td>
<td>4.33</td>
<td>44.90</td>
</tr>
<tr>
<td>JN 1018 QC 020</td>
<td>14</td>
<td>3</td>
<td>4.66</td>
<td>4.85</td>
<td>58.70</td>
</tr>
<tr>
<td>JN 1018 QC 030</td>
<td>12</td>
<td>3</td>
<td>5.66</td>
<td>5.86</td>
<td>91.80</td>
</tr>
<tr>
<td>JN 1018 RC 002</td>
<td>24</td>
<td>4</td>
<td>2.52</td>
<td>2.68</td>
<td>13.00</td>
</tr>
<tr>
<td>JN 1018 RC 004</td>
<td>22</td>
<td>4</td>
<td>2.88</td>
<td>3.04</td>
<td>18.60</td>
</tr>
<tr>
<td>JN 1018 RC 006</td>
<td>20</td>
<td>4</td>
<td>3.44</td>
<td>3.60</td>
<td>29.70</td>
</tr>
<tr>
<td>JN 1018 RC 010</td>
<td>18</td>
<td>4</td>
<td>4.01</td>
<td>4.18</td>
<td>43.10</td>
</tr>
<tr>
<td>JN 1018 RC 012</td>
<td>16</td>
<td>4</td>
<td>4.59</td>
<td>4.77</td>
<td>59.40</td>
</tr>
<tr>
<td>JN 1018 RC 020</td>
<td>14</td>
<td>4</td>
<td>5.17</td>
<td>5.36</td>
<td>77.80</td>
</tr>
<tr>
<td>JN 1018 RC 030</td>
<td>12</td>
<td>4</td>
<td>6.28</td>
<td>6.48</td>
<td>122.00</td>
</tr>
</tbody>
</table>

**Core identification Colours:**
- Two cores: Red - Blue
- Three cores: Red - Blue - Yellow
- Four cores: Red - Blue - Yellow - Green.

**External identification:**
- White (with exception of size 004: Pale blue)

**Marking:**
- JN1018 xx *** FR F ++
  - xx = Type code (PC or QC or RC)
  - *** = Size code (002,004,006...etc...)
  - FR = Country of Origin (FR = France)
  - F = Manufacturer (F = Filotex)
  - ++ = Year of Production (i.e. 99 = 1999)
Type " JN 1019 "

Filotex®

Flexible Light Weight Wires
Screened and Sheathed single and multicores Types
150°C Operating Temperature Light Weight
Arc Tracking Resistant Cables

Characteristics
- Voltage rating : 600 Volts RMS
- Operating temperature : -65°C to +150°C.(Ambient + Rise)
- Operating frequency : up to 2000 Hz
- Dimensions and weight : see table on reverse of this data sheet
- Very Good Resistance to Aircraft Fluids
- Arc Tracking Resistant

Identification
- Core Colours
- Sheat colours and Marking : see table on reverse of this data sheet
  FR = Country of Origin (FR = France)

Applications
- Designed for general Purpose Aircraft Wiring Applications

Specifications
- EUROFIGHTER SPE-J-920-A-0061 issue KY (March 1999)
- EFA : J61.015

CONSTRUCTION

CORES
- Type JN 1007

SCREEN
- Nickel Copper Braided Screen

JACKET
- Polymide Tapes
- UV Laser markable FEP Lacquer Top coat

PRODUCT REFERENCES

JN1019
JN1007
JN1018
### DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>US Nbr of Cores</th>
<th>Screen Strands AWG Size</th>
<th>O.D. (mm) Nom.</th>
<th>Diameter (mm) Min</th>
<th>Diameter (mm) Max.</th>
<th>Weight (Kg/Km) Max.</th>
<th>Resistance of Cores (Ohms/Km) Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>JN 1019 SK 002</td>
<td>24</td>
<td>1</td>
<td>40</td>
<td>1.32</td>
<td>1.56</td>
<td>1.70</td>
<td>6.95</td>
</tr>
<tr>
<td>JN 1019 SK 004</td>
<td>22</td>
<td>1</td>
<td>40</td>
<td>1.47</td>
<td>1.71</td>
<td>1.85</td>
<td>8.85</td>
</tr>
<tr>
<td>JN 1019 SK 006</td>
<td>20</td>
<td>1</td>
<td>40</td>
<td>1.77</td>
<td>1.94</td>
<td>2.08</td>
<td>12.20</td>
</tr>
<tr>
<td>JN 1019 SK 010</td>
<td>18</td>
<td>1</td>
<td>38</td>
<td>2.01</td>
<td>2.18</td>
<td>2.33</td>
<td>16.30</td>
</tr>
<tr>
<td>JN 1019 SK 012</td>
<td>16</td>
<td>1</td>
<td>38</td>
<td>2.26</td>
<td>2.42</td>
<td>2.58</td>
<td>21.00</td>
</tr>
<tr>
<td>JN 1019 SK 020</td>
<td>14</td>
<td>1</td>
<td>38</td>
<td>2.50</td>
<td>2.66</td>
<td>2.80</td>
<td>26.30</td>
</tr>
<tr>
<td>JN 1019 SK 030</td>
<td>12</td>
<td>1</td>
<td>38</td>
<td>2.98</td>
<td>3.12</td>
<td>3.26</td>
<td>38.50</td>
</tr>
<tr>
<td>JN 1019 TB 002</td>
<td>24</td>
<td>2</td>
<td>40</td>
<td>2.32</td>
<td>2.49</td>
<td>2.67</td>
<td>12.00</td>
</tr>
<tr>
<td>JN 1019 TB 004</td>
<td>22</td>
<td>2</td>
<td>40</td>
<td>2.62</td>
<td>2.79</td>
<td>2.97</td>
<td>15.60</td>
</tr>
<tr>
<td>JN 1019 TB 006</td>
<td>20</td>
<td>2</td>
<td>38</td>
<td>3.14</td>
<td>3.25</td>
<td>3.44</td>
<td>22.40</td>
</tr>
<tr>
<td>JN 1019 TB 010</td>
<td>18</td>
<td>2</td>
<td>38</td>
<td>3.62</td>
<td>3.73</td>
<td>3.93</td>
<td>30.20</td>
</tr>
<tr>
<td>JN 1019 TB 012</td>
<td>16</td>
<td>2</td>
<td>38</td>
<td>4.12</td>
<td>4.21</td>
<td>4.42</td>
<td>39.50</td>
</tr>
<tr>
<td>JN 1019 TB 020</td>
<td>14</td>
<td>2</td>
<td>38</td>
<td>4.60</td>
<td>4.69</td>
<td>4.91</td>
<td>49.80</td>
</tr>
<tr>
<td>JN 1019 TB 030</td>
<td>12</td>
<td>2</td>
<td>38</td>
<td>5.56</td>
<td>5.61</td>
<td>5.84</td>
<td>74.10</td>
</tr>
<tr>
<td>JN 1019 UJ 002</td>
<td>24</td>
<td>3</td>
<td>40</td>
<td>2.47</td>
<td>2.64</td>
<td>2.82</td>
<td>16.00</td>
</tr>
<tr>
<td>JN 1019 UJ 004</td>
<td>22</td>
<td>3</td>
<td>40</td>
<td>2.79</td>
<td>2.96</td>
<td>3.14</td>
<td>21.10</td>
</tr>
<tr>
<td>JN 1019 UJ 006</td>
<td>20</td>
<td>3</td>
<td>38</td>
<td>3.35</td>
<td>3.46</td>
<td>3.64</td>
<td>30.60</td>
</tr>
<tr>
<td>JN 1019 UJ 010</td>
<td>18</td>
<td>3</td>
<td>38</td>
<td>3.86</td>
<td>3.98</td>
<td>4.18</td>
<td>42.00</td>
</tr>
<tr>
<td>JN 1019 UJ 012</td>
<td>16</td>
<td>3</td>
<td>38</td>
<td>4.40</td>
<td>4.50</td>
<td>4.72</td>
<td>55.60</td>
</tr>
<tr>
<td>JN 1019 UJ 020</td>
<td>14</td>
<td>3</td>
<td>38</td>
<td>4.91</td>
<td>5.02</td>
<td>5.26</td>
<td>70.60</td>
</tr>
<tr>
<td>JN 1019 UJ 030</td>
<td>12</td>
<td>3</td>
<td>38</td>
<td>5.95</td>
<td>6.01</td>
<td>6.28</td>
<td>106.00</td>
</tr>
<tr>
<td>JN 1019 VG 002</td>
<td>24</td>
<td>4</td>
<td>40</td>
<td>2.72</td>
<td>2.87</td>
<td>3.07</td>
<td>20.00</td>
</tr>
<tr>
<td>JN 1019 VG 004</td>
<td>22</td>
<td>4</td>
<td>40</td>
<td>3.08</td>
<td>3.23</td>
<td>3.43</td>
<td>26.50</td>
</tr>
<tr>
<td>JN 1019 VG 006</td>
<td>20</td>
<td>4</td>
<td>38</td>
<td>3.69</td>
<td>3.79</td>
<td>3.99</td>
<td>39.00</td>
</tr>
<tr>
<td>JN 1019 VG 010</td>
<td>18</td>
<td>4</td>
<td>38</td>
<td>4.26</td>
<td>4.37</td>
<td>4.59</td>
<td>54.00</td>
</tr>
<tr>
<td>JN 1019 VG 012</td>
<td>16</td>
<td>4</td>
<td>38</td>
<td>4.86</td>
<td>4.97</td>
<td>5.16</td>
<td>71.90</td>
</tr>
<tr>
<td>JN 1019 VG 020</td>
<td>14</td>
<td>4</td>
<td>38</td>
<td>5.44</td>
<td>5.52</td>
<td>5.76</td>
<td>91.70</td>
</tr>
<tr>
<td>JN 1019 VG 030</td>
<td>12</td>
<td>4</td>
<td>38</td>
<td>6.59</td>
<td>6.63</td>
<td>6.90</td>
<td>139.00</td>
</tr>
</tbody>
</table>

**Core identification Colours:**
- One core (SK): White with exception of size 004: Pale blue
- Two cores (TB): Red - Blue
- Three cores (UJ): Red - Blue - Yellow
- Four cores (VG): Red - Blue - Yellow - Green.

**External identification:** White with exception of size 004: Pale blue

**Marking:** JN1019 xx *** FR F ++

- **xx** = Type code (SK, TB, UJ or VG)
- ***** = Size code (002,004,006...etc...)
- **FR** = Country of Origin (FR = France)
- **F** = Manufacturer (F = Filotex)
- **++** = Year of Production (i.e. 97 = 1997)
Filotex®

Screened and Sheathed single and multicores Types
260°C Operating Temperature

Characteristics
- Voltage rating : 600 Volts RMS
- Operating temperature : -65°C to +260°C (Ambient + Rise)
- Operating frequency : up to 2000 Hz
- Dimensions and weight : see table on page 2
- Transfer Impedance : see table on page 3
- Very Good Resistance to Aircraft Fluids

Identification
- Core Colours and marking : see on page 3

Applications
- Designed for general Purpose Aircraft Wiring Applications when ECM is required

Specifications
- PANAVIA SPECIFICATION SP-P-99300-00-P
- EUROFIGHTER JN 1026/J61.016
- EUROFIGHTER J61.011 (Basic core)
- EUROFIGHTER JS6.010 (EMC Requirement)

CONSTRUCTION

CORES
1. Type PAN 6411

SCREEN
2. Optimized Nickel Copper Braided Screen

JACKET
3. Polyimide Tapes
4. UV Laser markable PTFE tape

PRODUCT REFERENCES

JN1026
PAN 6411
### DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>US AWG</th>
<th>Nbr of Cores</th>
<th>Screen Strands O.D. (mm) Nom.</th>
<th>Diameter (mm)</th>
<th>Weight (Kg/Km)</th>
<th>Resistance at 20°C (68°F) of Cores (Ohms/Km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JN 1026 SV 002</td>
<td>24</td>
<td>1</td>
<td>40 1.41</td>
<td>1.74 2.03</td>
<td>8.80</td>
<td>114.7</td>
</tr>
<tr>
<td>JN 1026 SV 004</td>
<td>22</td>
<td>1</td>
<td>40 1.55</td>
<td>1.88 2.19</td>
<td>10.8</td>
<td>58.80</td>
</tr>
<tr>
<td>JN 1026 SV 006</td>
<td>20</td>
<td>1</td>
<td>40 1.78</td>
<td>2.11 2.46</td>
<td>14.9</td>
<td>32.80</td>
</tr>
<tr>
<td>JN 1026 SV 010</td>
<td>18</td>
<td>1</td>
<td>38 2.11</td>
<td>2.44 2.72</td>
<td>19.4</td>
<td>20.80</td>
</tr>
<tr>
<td>JN 1026 SV 012</td>
<td>16</td>
<td>1</td>
<td>38 2.35</td>
<td>2.68 2.98</td>
<td>24.7</td>
<td>14.40</td>
</tr>
<tr>
<td>JN 1026 SV 020</td>
<td>14</td>
<td>1</td>
<td>38 2.59</td>
<td>2.92 3.35</td>
<td>31.7</td>
<td>10.60</td>
</tr>
<tr>
<td>JN 1026 SV 030</td>
<td>12</td>
<td>1</td>
<td>38 3.07</td>
<td>3.44 3.83</td>
<td>44.6</td>
<td>6.60</td>
</tr>
<tr>
<td>JN 1026 PV 002</td>
<td>24</td>
<td>2</td>
<td>38 2.58</td>
<td>2.91 3.18</td>
<td>15.5</td>
<td>116.99</td>
</tr>
<tr>
<td>JN 1026 PV 004</td>
<td>22</td>
<td>2</td>
<td>38 2.86</td>
<td>3.19 3.52</td>
<td>19.7</td>
<td>60</td>
</tr>
<tr>
<td>JN 1026 PV 006</td>
<td>20</td>
<td>2</td>
<td>38 3.32</td>
<td>3.65 4.04</td>
<td>27.6</td>
<td>33.5</td>
</tr>
<tr>
<td>JN 1026 PV 010</td>
<td>18</td>
<td>2</td>
<td>38 3.82</td>
<td>4.19 4.57</td>
<td>36.4</td>
<td>21.2</td>
</tr>
<tr>
<td>JN 1026 PV 012</td>
<td>16</td>
<td>2</td>
<td>38 4.30</td>
<td>4.67 5.09</td>
<td>47.0</td>
<td>14.7</td>
</tr>
<tr>
<td>JN 1026 PV 020</td>
<td>14</td>
<td>2</td>
<td>38 4.78</td>
<td>5.15 5.89</td>
<td>61.9</td>
<td>10.8</td>
</tr>
<tr>
<td>JN 1026 PV 030</td>
<td>12</td>
<td>2</td>
<td>36 5.82</td>
<td>6.19 6.86</td>
<td>88.3</td>
<td>6.73</td>
</tr>
<tr>
<td>JN 1026 QV 002</td>
<td>24</td>
<td>3</td>
<td>38 2.75</td>
<td>3.08 3.36</td>
<td>19.8</td>
<td>116.99</td>
</tr>
<tr>
<td>JN 1026 QV 004</td>
<td>22</td>
<td>3</td>
<td>38 3.05</td>
<td>3.38 3.72</td>
<td>25.7</td>
<td>60</td>
</tr>
<tr>
<td>JN 1026 QV 006</td>
<td>20</td>
<td>3</td>
<td>38 3.55</td>
<td>3.92 4.28</td>
<td>36.5</td>
<td>33.5</td>
</tr>
<tr>
<td>JN 1026 QV 010</td>
<td>18</td>
<td>3</td>
<td>38 4.09</td>
<td>4.46 4.84</td>
<td>49.4</td>
<td>21.2</td>
</tr>
<tr>
<td>JN 1026 QV 012</td>
<td>16</td>
<td>3</td>
<td>36 4.67</td>
<td>5.04 5.41</td>
<td>64.6</td>
<td>14.7</td>
</tr>
<tr>
<td>JN 1026 QV 020</td>
<td>14</td>
<td>3</td>
<td>36 5.19</td>
<td>5.56 6.26</td>
<td>85.7</td>
<td>10.8</td>
</tr>
<tr>
<td>JN 1026 QV 030</td>
<td>12</td>
<td>3</td>
<td>36 6.22</td>
<td>6.59 7.30</td>
<td>124</td>
<td>6.73</td>
</tr>
<tr>
<td>JN 1026 RV 002</td>
<td>24</td>
<td>4</td>
<td>38 3.05</td>
<td>3.36 3.65</td>
<td>24.3</td>
<td>116.99</td>
</tr>
<tr>
<td>JN 1026 RV 004</td>
<td>22</td>
<td>4</td>
<td>38 3.37</td>
<td>3.74 4.06</td>
<td>31.9</td>
<td>60</td>
</tr>
<tr>
<td>JN 1026 RV 006</td>
<td>20</td>
<td>4</td>
<td>38 3.92</td>
<td>4.30 4.69</td>
<td>46.1</td>
<td>33.5</td>
</tr>
<tr>
<td>JN 1026 RV 010</td>
<td>18</td>
<td>4</td>
<td>36 4.61</td>
<td>4.98 5.32</td>
<td>62.8</td>
<td>21.2</td>
</tr>
<tr>
<td>JN 1026 RV 012</td>
<td>16</td>
<td>4</td>
<td>36 5.19</td>
<td>5.56 6.02</td>
<td>83.6</td>
<td>14.7</td>
</tr>
<tr>
<td>JN 1026 RV 020</td>
<td>14</td>
<td>4</td>
<td>36 5.77</td>
<td>6.14 6.91</td>
<td>110</td>
<td>10.8</td>
</tr>
<tr>
<td>JN 1026 RV 030</td>
<td>12</td>
<td>4</td>
<td>36 6.93</td>
<td>7.30 8.07</td>
<td>160</td>
<td>6.73</td>
</tr>
</tbody>
</table>
### BASIC CORE PAN 6411/J61.011

<table>
<thead>
<tr>
<th>Wire type</th>
<th>Cond. Size mm²</th>
<th>N° of strands</th>
<th>Diameter of strands</th>
<th>Conductor dia.</th>
<th>Finished wire</th>
<th>Resistance at 20°C Ohms/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP 002</td>
<td>0.208</td>
<td>19</td>
<td>0.118</td>
<td>0.59</td>
<td>0.63</td>
<td>1.00</td>
</tr>
<tr>
<td>DP 004</td>
<td>0.336</td>
<td>19</td>
<td>0.15</td>
<td>0.75</td>
<td>0.79</td>
<td>1.16</td>
</tr>
<tr>
<td>DP 006</td>
<td>0.597</td>
<td>19</td>
<td>0.20</td>
<td>1.00</td>
<td>1.04</td>
<td>1.35</td>
</tr>
<tr>
<td>DP 010</td>
<td>0.933</td>
<td>19</td>
<td>0.25</td>
<td>1.25</td>
<td>1.29</td>
<td>1.60</td>
</tr>
<tr>
<td>DP 012</td>
<td>1.34</td>
<td>19</td>
<td>0.30</td>
<td>1.50</td>
<td>1.55</td>
<td>1.85</td>
</tr>
<tr>
<td>DP 020</td>
<td>1.82</td>
<td>37</td>
<td>0.25</td>
<td>1.75</td>
<td>1.81</td>
<td>2.10</td>
</tr>
<tr>
<td>DP 030</td>
<td>2.91</td>
<td>37</td>
<td>0.315</td>
<td>2.21</td>
<td>2.27</td>
<td>2.55</td>
</tr>
</tbody>
</table>

### MAXIMUM TRANSFER IMPEDANCE VALUES (mO/m)

<table>
<thead>
<tr>
<th>Size code</th>
<th>Single core (SV)</th>
<th>Two core cable (PV)</th>
<th>Three core cable (QV)</th>
<th>Four core cable (RV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JN 1026</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>002</td>
<td>70,00</td>
<td>60,00</td>
<td>50,00</td>
<td>45,00</td>
</tr>
<tr>
<td>004</td>
<td>65,00</td>
<td>50,00</td>
<td>45,00</td>
<td>35,00</td>
</tr>
<tr>
<td>006</td>
<td>55,00</td>
<td>35,00</td>
<td>30,00</td>
<td>25,00</td>
</tr>
<tr>
<td>010</td>
<td>50,00</td>
<td>35,00</td>
<td>25,00</td>
<td>25,00</td>
</tr>
<tr>
<td>012</td>
<td>40,00</td>
<td>25,00</td>
<td>20,00</td>
<td>20,00</td>
</tr>
<tr>
<td>020</td>
<td>35,00</td>
<td>20,00</td>
<td>18,00</td>
<td>18,00</td>
</tr>
<tr>
<td>030</td>
<td>35,00</td>
<td>20,00</td>
<td>18,00</td>
<td>18,00</td>
</tr>
</tbody>
</table>

**Core identification Colours :**

- One core (SV) : White
- Two cores (PV) : Red - Blue
- Three cores (QV) : Red - Blue - Yellow
- Four cores (RV) : Red - Blue - Yellow - Green.

**External identification :**

- Outer jacket colour : White
- Marking green colour : JN1026 xx *** FR F ++

xx = Type code (SV, PV, QV or RV)
*** = Size code (002,004,006...)
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex)
++ = Year of Production (i.e. 03 = 2003)
Applications
- Designed for general Purpose Aircraft Wiring Applications.

Main data
- Temperature rating: -65°C / +150°C (Ambiant. + Rise.)
- Voltage rating: 600 Volts RMS.
- Operating frequency: up to 2000 Hz.
- Dimensions and weights: see table on this data sheet.
- Very good resistance to Aircraft Fluids.
- Arc Tracking Resistant

Identification
- Colours: White (Size 004: Pale Blue)
- Marking: VG95218T020H**£ F 0241 ++ AC
  ** = Dash N°
  £ = Colour (9 = White A = Pale blue)
  ++ = Year of production (ie. : 00 = 2000)
  AC = Cable code according to TR 6058
  F 0241 = Manufacturer’s Cage code

Specifications
- VG 95218-2 (May 1998)
- VG 95218-20 (Feb 2000)
DIMENSIONS AND WEIGHTS (Metric Units)

TYPE H: Single core silver plated copper or copper alloy conductor.

<table>
<thead>
<tr>
<th>VG Reference</th>
<th>NEXANS Part Number</th>
<th>Dash Number (VG)</th>
<th>Size Code (NEXANS)</th>
<th>AWG (1)</th>
<th>Conductor Stranding Nbr x Diam of strands (mm)</th>
<th>Conductor Diameter Min. (mm)</th>
<th>Conductor Diameter Max. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VG 95218T020H019</td>
<td>FX 5301-002</td>
<td>01</td>
<td>002</td>
<td>24</td>
<td>19 x 0.12</td>
<td>0.55</td>
<td>0.62</td>
</tr>
<tr>
<td>VG 95218T020H02A</td>
<td>FX 5301-004</td>
<td>02</td>
<td>004</td>
<td>22</td>
<td>19 x 0.15</td>
<td>0.70</td>
<td>0.80</td>
</tr>
<tr>
<td>VG 95218T020H039</td>
<td>FX 5301-006</td>
<td>03</td>
<td>006</td>
<td>20</td>
<td>19 x 0.20</td>
<td>0.94</td>
<td>1.04</td>
</tr>
<tr>
<td>VG 95218T020H049</td>
<td>FX 5301-010</td>
<td>04</td>
<td>010</td>
<td>18</td>
<td>19 x 0.25</td>
<td>1.18</td>
<td>1.29</td>
</tr>
<tr>
<td>VG 95218T020H059</td>
<td>FX 5301-012</td>
<td>05</td>
<td>012</td>
<td>16</td>
<td>19 x 0.30</td>
<td>1.39</td>
<td>1.53</td>
</tr>
<tr>
<td>VG 95218T020H069</td>
<td>FX 5301-020</td>
<td>06</td>
<td>020</td>
<td>14</td>
<td>37 x 0.25</td>
<td>1.68</td>
<td>1.82</td>
</tr>
<tr>
<td>VG 95218T020H079</td>
<td>FX 5301-030</td>
<td>07</td>
<td>030</td>
<td>12</td>
<td>37 x 0.32</td>
<td>2.12</td>
<td>2.28</td>
</tr>
</tbody>
</table>

(1) = For Information only.

Finished Wire

<table>
<thead>
<tr>
<th>Diameter Min. (mm)</th>
<th>Diameter Max. (mm)</th>
<th>Weight Max. (g/m)</th>
<th>Maximum DC Resistance at 20°C (68°F) (Ohms/Km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.98</td>
<td>1.08</td>
<td>3.23</td>
<td>106</td>
</tr>
<tr>
<td>1.12</td>
<td>1.24</td>
<td>4.59</td>
<td>55.3</td>
</tr>
<tr>
<td>1.33</td>
<td>1.47</td>
<td>7.29</td>
<td>31</td>
</tr>
<tr>
<td>1.58</td>
<td>1.72</td>
<td>10.69</td>
<td>19.6</td>
</tr>
<tr>
<td>1.81</td>
<td>1.97</td>
<td>14.86</td>
<td>13.6</td>
</tr>
<tr>
<td>2.07</td>
<td>2.19</td>
<td>19.43</td>
<td>10.2</td>
</tr>
<tr>
<td>2.53</td>
<td>2.69</td>
<td>30.83</td>
<td>6.4</td>
</tr>
</tbody>
</table>
**Applications**
Designed for general Purpose Aircraft Wiring Applications.

**Main data**
- Temperature rating: -65°C /+150°C (Ambiant. + Rise.)
- Voltage rating: 600 Volts RMS.
- Operating frequency: up to 2000 Hz.
- Dimensions and weights: see table on page 2.
- Very good resistance to Aircraft Fluids.
- Arc Tracking Resistant

**Identification**
- Core colour
- Jacket colour
- Marking (see page 2)

**Specifications**
- VG 95218-2 (May 1998)
- VG 95218-22 (October 1999)
- VG 95218-23 (October 1999)
### DIMENSIONS AND WEIGHTS (Metric Units)

#### TYPE E: Single core shielded and jacketed

<table>
<thead>
<tr>
<th>Reference</th>
<th>Nbr. of Cores</th>
<th>Dash Code (VG)</th>
<th>Size Code (NEXANS)</th>
<th>AWG Size (1)</th>
<th>Diam. of Finished Wire (mm)</th>
<th>Min. Diameter (mm)</th>
<th>Max. Diameter (mm)</th>
<th>Max. Weight (g/m)</th>
<th>Max. DC Resistance at 20°C (68°F) (Ohms/Km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VG 95218T22E001</td>
<td>1</td>
<td>001</td>
<td>002</td>
<td>24</td>
<td>0.08</td>
<td>1.52</td>
<td>1.68</td>
<td>7.04</td>
<td>106</td>
</tr>
<tr>
<td>VG 95218T22E002</td>
<td>1</td>
<td>002</td>
<td>004</td>
<td>22</td>
<td>0.08</td>
<td>1.66</td>
<td>1.85</td>
<td>8.85</td>
<td>55.3</td>
</tr>
<tr>
<td>VG 95218T22E003</td>
<td>1</td>
<td>003</td>
<td>006</td>
<td>20</td>
<td>0.08</td>
<td>1.87</td>
<td>2.08</td>
<td>12.2</td>
<td>31</td>
</tr>
<tr>
<td>VG 95218T22E004</td>
<td>1</td>
<td>004</td>
<td>010</td>
<td>18</td>
<td>0.10</td>
<td>2.21</td>
<td>2.39</td>
<td>17.56</td>
<td>19.6</td>
</tr>
<tr>
<td>VG 95218T22E005</td>
<td>1</td>
<td>005</td>
<td>012</td>
<td>16</td>
<td>0.10</td>
<td>2.44</td>
<td>2.64</td>
<td>22.59</td>
<td>13.6</td>
</tr>
<tr>
<td>VG 95218T22E006</td>
<td>1</td>
<td>006</td>
<td>020</td>
<td>14</td>
<td>0.10</td>
<td>2.70</td>
<td>2.86</td>
<td>27.94</td>
<td>10.2</td>
</tr>
<tr>
<td>VG 95218T22E007</td>
<td>1</td>
<td>007</td>
<td>030</td>
<td>12</td>
<td>0.10</td>
<td>3.16</td>
<td>3.36</td>
<td>41.06</td>
<td>6.4</td>
</tr>
<tr>
<td>VG 95218T23D001</td>
<td>2</td>
<td>001</td>
<td>002</td>
<td>24</td>
<td>0.08</td>
<td>2.47</td>
<td>2.73</td>
<td>12.27</td>
<td>109.2</td>
</tr>
<tr>
<td>VG 95218T23D002</td>
<td>2</td>
<td>002</td>
<td>004</td>
<td>22</td>
<td>0.08</td>
<td>2.76</td>
<td>3.05</td>
<td>15.77</td>
<td>57</td>
</tr>
<tr>
<td>VG 95218T23D003</td>
<td>2</td>
<td>003</td>
<td>006</td>
<td>20</td>
<td>0.10</td>
<td>3.25</td>
<td>3.59</td>
<td>23.97</td>
<td>31.9</td>
</tr>
<tr>
<td>VG 95218T23D004</td>
<td>2</td>
<td>004</td>
<td>010</td>
<td>18</td>
<td>0.10</td>
<td>3.76</td>
<td>4.08</td>
<td>32.29</td>
<td>30.2</td>
</tr>
<tr>
<td>VG 95218T23D005</td>
<td>2</td>
<td>005</td>
<td>012</td>
<td>16</td>
<td>0.10</td>
<td>4.22</td>
<td>4.58</td>
<td>42.20</td>
<td>14.0</td>
</tr>
<tr>
<td>VG 95218T23D006</td>
<td>2</td>
<td>006</td>
<td>020</td>
<td>14</td>
<td>0.10</td>
<td>4.73</td>
<td>5.03</td>
<td>52.81</td>
<td>10.5</td>
</tr>
<tr>
<td>VG 95218T23D007</td>
<td>2</td>
<td>007</td>
<td>030</td>
<td>12</td>
<td>0.10</td>
<td>5.66</td>
<td>6.02</td>
<td>78.85</td>
<td>6.6</td>
</tr>
<tr>
<td>VG 95218T23D008</td>
<td>3</td>
<td>008</td>
<td>002</td>
<td>24</td>
<td>0.08</td>
<td>2.61</td>
<td>2.89</td>
<td>16.44</td>
<td>109.2</td>
</tr>
<tr>
<td>VG 95218T23D009</td>
<td>3</td>
<td>009</td>
<td>004</td>
<td>22</td>
<td>0.08</td>
<td>2.93</td>
<td>3.23</td>
<td>21.45</td>
<td>57</td>
</tr>
<tr>
<td>VG 95218T23D010</td>
<td>3</td>
<td>010</td>
<td>006</td>
<td>20</td>
<td>0.10</td>
<td>3.45</td>
<td>3.81</td>
<td>32.85</td>
<td>31.9</td>
</tr>
<tr>
<td>VG 95218T23D011</td>
<td>3</td>
<td>011</td>
<td>010</td>
<td>18</td>
<td>0.10</td>
<td>4.00</td>
<td>4.34</td>
<td>44.90</td>
<td>30.2</td>
</tr>
<tr>
<td>VG 95218T23D012</td>
<td>3</td>
<td>012</td>
<td>012</td>
<td>16</td>
<td>0.10</td>
<td>4.50</td>
<td>4.88</td>
<td>59.32</td>
<td>14.0</td>
</tr>
<tr>
<td>VG 95218T23D013</td>
<td>3</td>
<td>013</td>
<td>020</td>
<td>14</td>
<td>0.10</td>
<td>5.04</td>
<td>5.36</td>
<td>74.82</td>
<td>10.5</td>
</tr>
<tr>
<td>VG 95218T23D014</td>
<td>3</td>
<td>014</td>
<td>030</td>
<td>12</td>
<td>0.10</td>
<td>6.05</td>
<td>6.43</td>
<td>113.00</td>
<td>6.6</td>
</tr>
<tr>
<td>VG 95218T23D015</td>
<td>4</td>
<td>015</td>
<td>002</td>
<td>24</td>
<td>0.08</td>
<td>2.86</td>
<td>3.16</td>
<td>20.61</td>
<td>109.2</td>
</tr>
<tr>
<td>VG 95218T23D016</td>
<td>4</td>
<td>016</td>
<td>004</td>
<td>22</td>
<td>0.08</td>
<td>3.20</td>
<td>3.54</td>
<td>27.13</td>
<td>57</td>
</tr>
<tr>
<td>VG 95218T23D017</td>
<td>4</td>
<td>017</td>
<td>006</td>
<td>20</td>
<td>0.10</td>
<td>3.78</td>
<td>4.18</td>
<td>41.74</td>
<td>31.9</td>
</tr>
<tr>
<td>VG 95218T23D018</td>
<td>4</td>
<td>018</td>
<td>010</td>
<td>18</td>
<td>0.10</td>
<td>4.41</td>
<td>4.77</td>
<td>57.51</td>
<td>30.2</td>
</tr>
<tr>
<td>VG 95218T23D019</td>
<td>4</td>
<td>019</td>
<td>012</td>
<td>16</td>
<td>0.10</td>
<td>4.96</td>
<td>5.38</td>
<td>76.43</td>
<td>14.0</td>
</tr>
<tr>
<td>VG 95218T23D020</td>
<td>4</td>
<td>020</td>
<td>020</td>
<td>14</td>
<td>0.10</td>
<td>5.58</td>
<td>5.92</td>
<td>96.83</td>
<td>10.5</td>
</tr>
<tr>
<td>VG 95218T23D021</td>
<td>4</td>
<td>021</td>
<td>030</td>
<td>12</td>
<td>0.10</td>
<td>6.69</td>
<td>7.11</td>
<td>147.14</td>
<td>6.6</td>
</tr>
</tbody>
</table>

**COLOUR and MARKING:**

#### SINGLE CORE SHIELDED AND JACKETED (TYPE E):

- **Core colour:** White (with exception of size 004: Pale Blue)
- **Marking on Jacket:** White (with exception of size 004: Pale Blue)
  - VG95218T022E*** F 0241 ++ GE

#### MULTI CORE SHIELDED AND JACKETED (TYPE D):

- **Core Identification:** Marking with coloured arabic digits printed on the core and a dash placed underneath it.
  - Core number 1: digit = 1 - Core number 2: digit = 2... and so on
- **Marking on Jacket:** White (with exception of size 004: Pale Blue)
  - VG95218T023D*** F 0241 ++ ##

---

*** = Dash number (VG)

++ = Year of production (ie.: 00 = 2000)

## = Cable code according to TR 6058

GF = 2 cores

GG = 3 cores

GH = 4 cores

---

140 – 146 rue E. Delacroix / BP 1
F – 91211 Draveil cedex – FRANCE
Tel.: +33 1 69 83 78 00
Fax.: +33 1 69 42 05 70

nexans
ABS 0949 - AD
AWG 24 to 4
Nickel Copper Clad Aluminium Alloy Conductors
UV laser printable

**Characteristics**
- Voltage rating: 600 Volts RMS.
- Operating temperature: -65°C to +180°C (Ambient + Rise).
- Operating frequency: up to 2000 Hz
- Dimensions and weights: see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Arc Tracking Resistant

**Identification**
- Standard Colour: Grey
- Marking: Green for AWG 22, Blue for other gauges
- Wording: AD ** FRF++

FR = Country of origin (FR = France)
F = Manufacturer (F = Nexans)
++ = Year of Production (ie. 00 = 2000)

**Applications**
- Designed for general Purpose Aircraft Wiring Applications

**Specifications**
- ABS 0957 (conductors)
- ABS 0958 (Technical specification)
- ABS 0949 AD (Product specification)

![Filotex® ABS 0949 AD](image)
### DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>Nexans References</th>
<th>AWG</th>
<th>Stranding Diameter</th>
<th>Maximum DC Resistance at 20°C (68°F) (Ohms/Km)</th>
<th>Finished wire Diameter</th>
<th>Maximum Weight (g/m)</th>
<th>Nom. Diameter (mm)</th>
<th>Max. Diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS 0949 AD 24</td>
<td>24</td>
<td>7 x 0.20</td>
<td>0.56</td>
<td>0.85</td>
<td>1.00</td>
<td>1.70</td>
<td>1.75</td>
</tr>
<tr>
<td>ABS 0949 AD 22</td>
<td>22</td>
<td>7 x 0.25</td>
<td>0.71</td>
<td>0.94</td>
<td>1.10</td>
<td>2.37</td>
<td>2.50</td>
</tr>
<tr>
<td>ABS 0949 AD 20</td>
<td>20</td>
<td>19 x 0.20</td>
<td>0.94</td>
<td>1.22</td>
<td>1.34</td>
<td>3.55</td>
<td>3.65</td>
</tr>
<tr>
<td>ABS 0949 AD 18</td>
<td>18</td>
<td>19 x 0.25</td>
<td>1.19</td>
<td>1.46</td>
<td>1.61</td>
<td>5.14</td>
<td>5.45</td>
</tr>
<tr>
<td>ABS 0949 AD 16</td>
<td>16</td>
<td>19 x 0.30</td>
<td>1.41</td>
<td>1.76</td>
<td>1.92</td>
<td>7.37</td>
<td>7.60</td>
</tr>
<tr>
<td>ABS 0949 AD 14</td>
<td>14</td>
<td>37 x 0.25</td>
<td>1.69</td>
<td>2.04</td>
<td>2.24</td>
<td>9.91</td>
<td>10.94</td>
</tr>
<tr>
<td>ABS 0949 AD 12</td>
<td>12</td>
<td>37 x 0.32</td>
<td>2.13</td>
<td>2.50</td>
<td>2.70</td>
<td>14.12</td>
<td>15.10</td>
</tr>
<tr>
<td>ABS 0949 AD 10</td>
<td>10</td>
<td>61 x 0.32</td>
<td>2.73</td>
<td>3.09</td>
<td>3.33</td>
<td>22.20</td>
<td>24.02</td>
</tr>
<tr>
<td>ABS 0949 AD 8</td>
<td>8</td>
<td>7 X 19 X 0.30</td>
<td>3.55</td>
<td>4.10</td>
<td>4.40</td>
<td>37.94</td>
<td>39.00</td>
</tr>
<tr>
<td>ABS 0949 AD 6</td>
<td>6</td>
<td>7 x 10 x 0.51</td>
<td>4.8</td>
<td>5.30</td>
<td>5.70</td>
<td>62.52</td>
<td>63.70</td>
</tr>
<tr>
<td>ABS 0949 AD 4</td>
<td>4</td>
<td>7 x 15 x 0.51</td>
<td>5.90</td>
<td>6.60</td>
<td>7.40</td>
<td>93.50</td>
<td>96.30</td>
</tr>
</tbody>
</table>
ABS 0949 - AD
AWG 3 to 000

Nickel Plated Aluminium Alloy Conductors
UV laser printable

Characteristics
- Voltage rating: 600 Volts RMS.
- Operating temperature: -65°C to +180°C (Ambient + Rise.)
- Operating frequency: up to 2000 Hz
- Dimensions and weights: see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Arc Tracking Resistant

Identification
- Standard Colour: Grey
- Marking: Blue
- Wording: AD ** FRF++

CONSTRUCTION

CONDUCTOR
- Nickel plated aluminium rope-lay conductor

INSULATION
- High performance polyimide tape
- Special UV PTFE Tape

FR = Country of origin (FR = France)
F = Manufacturer (F = Nexans)
++ = Year of Production (ie. 00 = 2000)

Applications
- Designed for general Purpose Aircraft Wiring Applications

Specifications
- ABS 0957 (conductors)
- ABS 0958 (Technical specification)
- ABS 0949 AD (Product specification)
**DIMENSIONS AND WEIGHTS (Metric Units)**

<table>
<thead>
<tr>
<th>Nexans References</th>
<th>AWG</th>
<th>Conduiteur</th>
<th>Maximum DC Resistance at 20°C (68°F)</th>
<th>Finished wire</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Stranding</td>
<td>Diameter (Nbr x mm)</td>
<td>Mini. (mm)</td>
</tr>
<tr>
<td>ABS 0949 AD 3</td>
<td>3</td>
<td>7 x 19 x 0.51</td>
<td>6.5</td>
<td>7.1</td>
</tr>
<tr>
<td>ABS 0949 AD 2</td>
<td>2</td>
<td>7 x 24 x 0.51</td>
<td>7.4</td>
<td>8.0</td>
</tr>
<tr>
<td>ABS 0949 AD 1</td>
<td>1</td>
<td>7 x 30 x 0.51</td>
<td>8.3</td>
<td>8.9</td>
</tr>
<tr>
<td>ABS 0949 AD 0</td>
<td>0</td>
<td>19 x 14 x 0.51</td>
<td>9.7</td>
<td>10.3</td>
</tr>
<tr>
<td>ABS 0949 AD 00</td>
<td>00</td>
<td>19 x 18 x 0.51</td>
<td>11.1</td>
<td>11.7</td>
</tr>
<tr>
<td>ABS 0949 AD 000</td>
<td>000</td>
<td>19 x 22 x 0.51</td>
<td>12.4</td>
<td>13</td>
</tr>
</tbody>
</table>
**Filotex®**

**Multicores**  Ni. Copper Clad Alu. (AWG 24 to 4)
**Multicores**  Aluminium alloy (AWG 3 to 000)

**Characteristics**
- Voltage rating : 600 Volts RMS.
- Operating temperature : -65°C to +180°C (Ambient + Rise.)
- Operating frequency : up to 2000 Hz
- Dimensions and weights : see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Arc Tracking Resistant

**Applications**
- Designed for general Purpose Aircraft Wiring Applications

**Specifications**
- ABS1354 Product Standard
- ABS0958 Technical Specification

**CONSTRUCTION**

**CORES**
- 2, 3 or 4 Cores
- ABS 0949 ADA

**PRODUCT REFERENCES**

ABS 1354 AD+ **
## DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>US AWG</th>
<th>Nbr of Cores</th>
<th>Colours</th>
<th>Maximum DC Resistance at 20°C (68°K) (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS 1354 ADB</td>
<td>24</td>
<td>2</td>
<td></td>
<td>149.4</td>
<td>1.78</td>
<td>1.9</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>22</td>
<td>2</td>
<td></td>
<td>92.9</td>
<td>2.04</td>
<td>2.16</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>20</td>
<td>2</td>
<td></td>
<td>51.1</td>
<td>2.58</td>
<td>2.75</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>18</td>
<td>2</td>
<td></td>
<td>34.2</td>
<td>3.08</td>
<td>3.25</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>16</td>
<td>2</td>
<td>1 Red</td>
<td>23.7</td>
<td>3.70</td>
<td>3.85</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>14</td>
<td>2</td>
<td>1 Blue</td>
<td>16</td>
<td>4.30</td>
<td>4.47</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>12</td>
<td>2</td>
<td></td>
<td>11.2</td>
<td>5.12</td>
<td>5.31</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>10</td>
<td>2</td>
<td></td>
<td>6</td>
<td>6.34</td>
<td>6.98</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>8</td>
<td>2</td>
<td></td>
<td>3.91</td>
<td>8.58</td>
<td>8.92</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>6</td>
<td>2</td>
<td></td>
<td>2.37</td>
<td>11.0</td>
<td>11.44</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>4</td>
<td>2</td>
<td></td>
<td>1.55</td>
<td>13.42</td>
<td>13.96</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>3</td>
<td>2</td>
<td></td>
<td>1.22</td>
<td>15.02</td>
<td>15.62</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>2</td>
<td>2</td>
<td>1 Yellow</td>
<td>0.97</td>
<td>16.64</td>
<td>17.31</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>1</td>
<td>2</td>
<td></td>
<td>0.77</td>
<td>18.44</td>
<td>18.99</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>0</td>
<td>2</td>
<td></td>
<td>0.62</td>
<td>21.22</td>
<td>21.86</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>00</td>
<td>2</td>
<td></td>
<td>0.44</td>
<td>24.02</td>
<td>24.74</td>
</tr>
<tr>
<td>ABS 1354 ADB</td>
<td>000</td>
<td>2</td>
<td></td>
<td>0.37</td>
<td>26.62</td>
<td>27.42</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>24</td>
<td>3</td>
<td>1 Red</td>
<td>149.4</td>
<td>1.92</td>
<td>2.04</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>22</td>
<td>3</td>
<td>1 Blue</td>
<td>92.9</td>
<td>2.20</td>
<td>2.33</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>20</td>
<td>3</td>
<td></td>
<td>51.1</td>
<td>2.78</td>
<td>2.96</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>18</td>
<td>3</td>
<td></td>
<td>34.2</td>
<td>3.32</td>
<td>3.49</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>16</td>
<td>3</td>
<td></td>
<td>23.7</td>
<td>3.99</td>
<td>4.15</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>14</td>
<td>3</td>
<td></td>
<td>16</td>
<td>4.63</td>
<td>4.83</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>12</td>
<td>3</td>
<td>1 Yellow</td>
<td>11.2</td>
<td>5.52</td>
<td>5.73</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>10</td>
<td>3</td>
<td></td>
<td>6</td>
<td>6.83</td>
<td>7.53</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>8</td>
<td>3</td>
<td></td>
<td>3.91</td>
<td>9.24</td>
<td>9.61</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>6</td>
<td>3</td>
<td></td>
<td>2.37</td>
<td>11.85</td>
<td>12.32</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>4</td>
<td>3</td>
<td></td>
<td>1.55</td>
<td>14.46</td>
<td>15.04</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>3</td>
<td>3</td>
<td></td>
<td>1.22</td>
<td>16.18</td>
<td>16.83</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>2</td>
<td>3</td>
<td></td>
<td>0.97</td>
<td>17.93</td>
<td>18.65</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>1</td>
<td>3</td>
<td></td>
<td>0.77</td>
<td>19.87</td>
<td>20.66</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>0</td>
<td>3</td>
<td></td>
<td>0.62</td>
<td>22.86</td>
<td>23.50</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>00</td>
<td>3</td>
<td></td>
<td>0.44</td>
<td>25.88</td>
<td>26.60</td>
</tr>
<tr>
<td>ABS 1354 ADC</td>
<td>000</td>
<td>3</td>
<td></td>
<td>0.37</td>
<td>28.68</td>
<td>29.48</td>
</tr>
</tbody>
</table>
### Core identification Colours:

- **Two cores (ADB):** Red - Blue
- **Three cores (ADC):** Red - Blue - Yellow
- **Four cores (ADD):** Red - Blue - Yellow - Green

**Marking:** ADA ** FRF++   ADA ** FRF++

**Colour:** Black

**= AWG**

FR = Country of Origin (FR = France)

F = Manufacturer (F= Filotex®)

++ = Year of manufacturing (ie. 03 = 2003)
Abs 1356

Filotex®

Screened and Jacketed single and multicores
UV Laser printable

Characteristics
- Voltage rating : 600 Volts RMS.
- Operating temperature : -65°C to +180°C (Ambient. + Rise.)
- Operating frequency : up to 2000 Hz
- Dimensions and weights : see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Arc Tracking Resistant

Identification
- Core Colours
- Jacket Colours and
- Marking : see next pages on this data sheet

Applications
- Designed for general Purpose Aircraft Wiring Applications

Specifications
- ABS 1356

VNA

SCREEN
- Nickel-plated copper spiral screen

JACKET
- Polyimide Tape
- UV PTFE Tape

VNC

VNB

VND
### DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>US Nbr of Cores</th>
<th>Screen Diameter (mm)</th>
<th>Screen Strands Nominal Diameter (mm)</th>
<th>Screen Finish Wire</th>
<th>Finished Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AWG</td>
<td></td>
<td></td>
<td>Colours</td>
<td>Maximum DC Resistance at 20°C (68°C) (Ohms/Km) Nom. / Max.</td>
</tr>
<tr>
<td>ABS 1356 VNA</td>
<td>24</td>
<td>1</td>
<td>0.08</td>
<td>1 Grey</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNA</td>
<td>22</td>
<td>1</td>
<td>0.08</td>
<td>1 Grey</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNA</td>
<td>20</td>
<td>1</td>
<td>0.08</td>
<td>1 Grey</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNA</td>
<td>18</td>
<td>1</td>
<td>0.08</td>
<td>1 Grey</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNA</td>
<td>16</td>
<td>1</td>
<td>0.10</td>
<td>1 Grey</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNA</td>
<td>14</td>
<td>1</td>
<td>0.10</td>
<td>1 Grey</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNA</td>
<td>12</td>
<td>1</td>
<td>0.10</td>
<td>1 Grey</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNA</td>
<td>10</td>
<td>1</td>
<td>0.12</td>
<td>1 Grey</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNB</td>
<td>24</td>
<td>2</td>
<td>0.08</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNB</td>
<td>22</td>
<td>2</td>
<td>0.08</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNB</td>
<td>20</td>
<td>2</td>
<td>0.10</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNB</td>
<td>18</td>
<td>2</td>
<td>0.10</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNB</td>
<td>16</td>
<td>2</td>
<td>0.12</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNB</td>
<td>14</td>
<td>2</td>
<td>0.15</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNB</td>
<td>12</td>
<td>2</td>
<td>0.20</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNB</td>
<td>10</td>
<td>2</td>
<td>0.20</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNC</td>
<td>24</td>
<td>3</td>
<td>0.10</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNC</td>
<td>22</td>
<td>3</td>
<td>0.10</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNC</td>
<td>20</td>
<td>3</td>
<td>0.12</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNC</td>
<td>18</td>
<td>3</td>
<td>0.12</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNC</td>
<td>16</td>
<td>3</td>
<td>0.15</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNC</td>
<td>14</td>
<td>3</td>
<td>0.15</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNC</td>
<td>12</td>
<td>3</td>
<td>0.20</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
<tr>
<td>ABS 1356 VNC</td>
<td>10</td>
<td>3</td>
<td>0.20</td>
<td>1 Grey, 1 Red, 1 Blue</td>
<td>Grey</td>
</tr>
</tbody>
</table>
CABLE - AIRFRAME
GENERAL PURPOSE +210 ºC

Applications
- Designed for general Purpose Aircraft Wiring Applications.

Main data
- Operating temperature : -65°C to +210°C (Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification
- Colours : Beige
- Wording: 710-FF-++-**
  With : ** = AWG Wire Size
  F = Manufacturer (F = Filotex®)
  F = Country of Origin (F = France)
  ++ = Year of Manufacturing (ie. 00 = 2000)

Specifications
- SB/8D/5063-03 Part B1

CONSTRUCTION

CONDUCTOR
- Stranded Conductor :
  Nickel Plated
  High Strength Copper
  Alloy (AWG 24) or
  Nickel Plated Copper
  (AWG 22 to 10).

INSULATION
- 2 FEP/POLYIMIDE/FEP Tapes

COLOURED TOPCOAT
- Mechanical polyimide coating protection
### DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>US AWG</th>
<th>Conductor</th>
<th>Finished Wire</th>
<th>Maximum DC Resistance at 20°C (68°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Mini.</td>
<td>Maxi.</td>
<td>(mm)</td>
</tr>
<tr>
<td>BAS 8710 AWG 24</td>
<td>24</td>
<td>19.1 mm x 0.120</td>
<td>0.53</td>
<td>0.63</td>
</tr>
<tr>
<td>BAS 8710 AWG 22</td>
<td>22</td>
<td>19.1 mm x 0.150</td>
<td>0.68</td>
<td>0.80</td>
</tr>
<tr>
<td>BAS 8710 AWG 20</td>
<td>20</td>
<td>19.1 mm x 0.193</td>
<td>0.90</td>
<td>1.02</td>
</tr>
<tr>
<td>BAS 8710 AWG 18</td>
<td>18</td>
<td>19.1 mm x 0.250</td>
<td>1.18</td>
<td>1.30</td>
</tr>
<tr>
<td>BAS 8710 AWG 16</td>
<td>16</td>
<td>37.0 mm x 0.200</td>
<td>1.32</td>
<td>1.45</td>
</tr>
<tr>
<td>BAS 8710 AWG 14</td>
<td>14</td>
<td>37.0 mm x 0.250</td>
<td>1.65</td>
<td>1.80</td>
</tr>
<tr>
<td>BAS 8710 AWG 12</td>
<td>12</td>
<td>37.0 mm x 0.315</td>
<td>2.10</td>
<td>2.25</td>
</tr>
<tr>
<td>BAS 8710 AWG 10</td>
<td>10</td>
<td>37.0 mm x 0.400</td>
<td>2.69</td>
<td>2.85</td>
</tr>
</tbody>
</table>
Filotex®

Cable – Airframe
Single and Multi-cores Screened and Sheathed
General Purpose +210 °C

Applications
- Designed for general Purpose Aircraft Wiring Applications.

Main data
- Operating temperature: -65°C to +210°C (Ambiant + Rise)
- Voltage rating: 600 Volts RMS.
- Operating frequency: up to 2000 Hz.
- Dimensions and weights: See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification
- Core identification:
  Colours:
  Single core: Beige
  Two cores: Black / Red with marking
  Three cores: Black / Red with marking / Green
- Jacket identification colour: White (with marking for single core)
  Marking: Wording: 71£-FF-++-**
  With: £ = Number of core
  ** = AWG Wire Size
  F = Manufacturer (F = Filotex®)
  F = Country of Origin (F = France)
  ++ = Year of Manufacturing (ie. 03 = 2003)

Specifications: SB/8D/5063-01 Part B
### DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>NEXANS Filotex PART NUMBER</th>
<th>US AWG</th>
<th>Nbr of cores</th>
<th>Nom. Diameter of shield strands (mm)</th>
<th>Maximum DC Resistance at 20°C (68°F)</th>
<th>Diameter (mm) Min.</th>
<th>Diameter (mm) Max.</th>
<th>Maximum Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAS 8711 AWG 24</td>
<td>24</td>
<td>1</td>
<td>0.07</td>
<td>112.6</td>
<td>1.26</td>
<td>1.50</td>
<td>5.70</td>
</tr>
<tr>
<td>BAS 8711 AWG 22</td>
<td>22</td>
<td>1</td>
<td>0.07</td>
<td>60.0</td>
<td>1.38</td>
<td>1.62</td>
<td>7.25</td>
</tr>
<tr>
<td>BAS 8711 AWG 20</td>
<td>20</td>
<td>1</td>
<td>0.07</td>
<td>35.9</td>
<td>1.58</td>
<td>1.82</td>
<td>10.0</td>
</tr>
<tr>
<td>BAS 8711 AWG 18</td>
<td>18</td>
<td>1</td>
<td>0.07</td>
<td>21.2</td>
<td>1.87</td>
<td>2.11</td>
<td>14.6</td>
</tr>
<tr>
<td>BAS 8712 AWG 24</td>
<td>24</td>
<td>2</td>
<td>0.10</td>
<td>116.0</td>
<td>2.39</td>
<td>2.79</td>
<td>16.2</td>
</tr>
<tr>
<td>BAS 8712 AWG 22</td>
<td>22</td>
<td>2</td>
<td>0.10</td>
<td>61.8</td>
<td>2.63</td>
<td>3.03</td>
<td>21.8</td>
</tr>
<tr>
<td>BAS 8712 AWG 20</td>
<td>20</td>
<td>2</td>
<td>0.10</td>
<td>37.0</td>
<td>3.09</td>
<td>3.49</td>
<td>25.2</td>
</tr>
<tr>
<td>BAS 8712 AWG 18</td>
<td>18</td>
<td>2</td>
<td>0.12</td>
<td>21.8</td>
<td>3.70</td>
<td>4.10</td>
<td>37.5</td>
</tr>
<tr>
<td>BAS 8713 AWG 24</td>
<td>24</td>
<td>3</td>
<td>0.10</td>
<td>116.0</td>
<td>2.55</td>
<td>2.95</td>
<td>21.4</td>
</tr>
<tr>
<td>BAS 8713 AWG 22</td>
<td>22</td>
<td>3</td>
<td>0.10</td>
<td>61.8</td>
<td>2.80</td>
<td>3.20</td>
<td>28.2</td>
</tr>
<tr>
<td>BAS 8713 AWG 20</td>
<td>20</td>
<td>3</td>
<td>0.10</td>
<td>37.0</td>
<td>3.31</td>
<td>3.71</td>
<td>33.3</td>
</tr>
<tr>
<td>BAS 8713 AWG 18</td>
<td>18</td>
<td>3</td>
<td>0.12</td>
<td>21.8</td>
<td>3.95</td>
<td>4.35</td>
<td>52.1</td>
</tr>
</tbody>
</table>
Filotex® Type ASN-E0261

200°C Operating Temperature Flexible Light Weight Wires Unscreened and Unsheathed Types

Applications
☐ Designed for general Purpose Aircraft Wiring Applications.

Main data
☐ Operating temperature : -55°C to +200°C (Ambiant + Rise)
☐ Voltage rating : 600 Volts RMS.
☐ Operating frequency : up to 2000 Hz.
☐ Conductor Construction : AECMA EN 2083 Specification
☐ Dimensions and weights : See table on this data sheet
☐ Very Good Resistance to Aircraft Fluids.
☐ Mould and Fungus Resistant

Identification
☐ Colours : White Except AWG 22 Size Which is Light Green.
☐ Wording : ■ CF ** @ FR F ++  ■ CF ** @ FR F ++
           With : ** = AWG Wire Size
                  @ = U letter for UV Laser Markable Wires
                  FR = Country of Origin (FR = France)
                  F = Manufacturer (F = Filotex®)
                  ++ = Year of Production (ie. 00 = 2000)

Specifications
☐ AECMA EN 2083 (Conductors)
   ASN-E0261
   NSA 935000, NSA 307110
   AS N°462012/84, AS 482018/89
   SDF/B67-04/A/108/1128

PRODUCT REFERENCES
ASN-E0261 CF
ASN-E0264 PF
ASN-E0266 QF
ASN-E0268 RF
ASN-E0270 SJ
ASN-E0272 TK
ASN-E0274 UD

CONSTRUCTION
CONDUCTOR
☐ A Stranded Conductor
   Made of Nickel Plated
   High Strength Copper
   Alloy (AWG 26 & 24) or
   Nickel Plated Copper
   (AWG 22 to 10).

INSULATION
☐ 2 FEP/POLYIMIDE/FEP
   Tapes

COLOURED TOPCOAT
☐ FEP (Laser Markable
   Optional) or PTFE for
   cores of Multicores
   Cables
### DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>NEXANS CABLE® Filotex® PART NUMBER</th>
<th>US AWG</th>
<th>Conductor</th>
<th>Finshed Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Stranding</td>
<td>Maximum DC Resistance at 20°C (68°F)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Nbr x mm)</td>
<td>Min.</td>
</tr>
<tr>
<td>ASN-E0261 CF 26 U</td>
<td>26</td>
<td>19 x 0.100</td>
<td>0.49</td>
</tr>
<tr>
<td>ASN-E0261 CF 24 U</td>
<td>24</td>
<td>19 x 0.120</td>
<td>0.58</td>
</tr>
<tr>
<td>ASN-E0261 CF 22 U</td>
<td>22</td>
<td>19 x 0.160</td>
<td>0.73</td>
</tr>
<tr>
<td>ASN-E0261 CF 20 U</td>
<td>20</td>
<td>19 x 0.200</td>
<td>0.97</td>
</tr>
<tr>
<td>ASN-E0261 CF 18 U</td>
<td>18</td>
<td>19 x 0.250</td>
<td>1.22</td>
</tr>
<tr>
<td>ASN-E0261 CF 16 U</td>
<td>16</td>
<td>19 x 0.300</td>
<td>1.46</td>
</tr>
<tr>
<td>ASN-E0261 CF 14 U</td>
<td>14</td>
<td>37 x 0.250</td>
<td>1.71</td>
</tr>
<tr>
<td>ASN-E0261 CF 12 U</td>
<td>12</td>
<td>37 x 0.320</td>
<td>2.19</td>
</tr>
<tr>
<td>ASN-E0261 CF 10 U</td>
<td>10</td>
<td>61 x 0.320</td>
<td>2.81</td>
</tr>
</tbody>
</table>

U = UV Laser Markable
Filotex® Type ASN-E0264
ASN-E0266
ASN-E0268

200°C Operating Temperature Flexible Light Weight Wires Unscreened and Unsheathed Types

Applications
- Designed for general Purpose Aircraft Wiring Applications.

Main data
- Operating temperature: -55°C to +200°C (Ambiant + Rise)
- Voltage rating: 600 Volts RMS.
- Operating frequency: up to 2000 Hz.
- Conductor Construction: AECMA EN 2083 Specification
- Dimensions and weights: See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification
- Cores Colours:
  1st Core Red
  2nd Core Light Blue
  3rd Core Yellow
  4th Core Green

- Marking
  Colour: White on red and dark green wires
  Dark Green on others.
  Wording:
  $ CF ** A FR F ++ $ (CF ** A FR)
  With:
  $ = AWG Wire Size
  $ FR = Country of Origin (FR = France)
  $ F = Manufacturer (F = Filotex®)
  $ ++ = Year of Production (ie. 00 = 2000)

Specifications
- AECMA EN 2083 (Conductors)
- ASN-E0261, ASN-E0264, ASN-E0266, ASN-E0268
- NSA 935000, NSA 307110 AS N°462012/84, AS 482018/89

PRODUCT REFERENCES
ASN-E0261 CF
ASN-E0264 PF
ASN-E0266 QF
ASN-E0268 RF
ASN-E0270 SJ
ASN-E0272 TK
ASN-E0274 UD

CONSTRUCTION
CORES (ASN-E0261)

CONDUCTOR
A Stranded Conductor
Made of Nickel Plated High Strength Copper
Alloy (AWG 26 & 24) or Nickel Plated Copper
(AWG 22 to 10).

INSULATION
2 FEP/POLYIMIDE/FEP Tapes

COLOURED TOPCOAT
PTFE

NUMBER OF CORES
ASN-E0264: 2
ASN-E0266: 3
ASN-E0268: 4

Filotex®
<table>
<thead>
<tr>
<th>FILOTEX PART NUMBER</th>
<th>Numbr of Cores</th>
<th>US AWG</th>
<th>Conductor Stranding (Nbr x Diam. in mm)</th>
<th>Nom. Diam. (mm)</th>
<th>Maximum DC Resistance at 20°C (68°F) (Ohms/Km)</th>
<th>Finished Cable Diameter (mm)</th>
<th>Maximum Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASN-E0264 PF 26</td>
<td>2</td>
<td>26</td>
<td>19 x 0.100</td>
<td>0.49</td>
<td>164</td>
<td>1.55 1.60 1.65</td>
<td>3.90</td>
</tr>
<tr>
<td>ASN-E0264 PF 24</td>
<td>2</td>
<td>24</td>
<td>19 x 0.120</td>
<td>0.58</td>
<td>117</td>
<td>1.73 1.78 1.83</td>
<td>5.3</td>
</tr>
<tr>
<td>ASN-E0264 PF 22</td>
<td>2</td>
<td>22</td>
<td>19 x 0.160</td>
<td>0.73</td>
<td>64</td>
<td>2.02 2.08 2.14</td>
<td>7.8</td>
</tr>
<tr>
<td>ASN-E0264 PF 20</td>
<td>2</td>
<td>20</td>
<td>19 x 0.200</td>
<td>0.97</td>
<td>34.9</td>
<td>2.48 2.56 2.64</td>
<td>13.2</td>
</tr>
<tr>
<td>ASN-E0264 PF 18</td>
<td>2</td>
<td>18</td>
<td>19 x 0.250</td>
<td>1.22</td>
<td>22.1</td>
<td>2.97 3.06 3.15</td>
<td>19.9</td>
</tr>
<tr>
<td>ASN-E0264 PF 16</td>
<td>2</td>
<td>16</td>
<td>19 x 0.300</td>
<td>1.46</td>
<td>15.2</td>
<td>3.43 3.54 3.65</td>
<td>28.1</td>
</tr>
<tr>
<td>ASN-E0264 PF 14</td>
<td>2</td>
<td>14</td>
<td>37 x 0.250</td>
<td>1.71</td>
<td>11.2</td>
<td>3.92 4.04 4.16</td>
<td>37.4</td>
</tr>
<tr>
<td>ASN-E0266 QF 26</td>
<td>3</td>
<td>26</td>
<td>19 x 0.100</td>
<td>0.49</td>
<td>164</td>
<td>1.67 1.72 1.78</td>
<td>5.9</td>
</tr>
<tr>
<td>ASN-E0266 QF 24</td>
<td>3</td>
<td>24</td>
<td>19 x 0.120</td>
<td>0.58</td>
<td>117</td>
<td>1.86 1.92 1.98</td>
<td>8.0</td>
</tr>
<tr>
<td>ASN-E0266 QF 22</td>
<td>3</td>
<td>22</td>
<td>19 x 0.160</td>
<td>0.73</td>
<td>64</td>
<td>2.17 2.24 2.31</td>
<td>11.8</td>
</tr>
<tr>
<td>ASN-E0266 QF 20</td>
<td>3</td>
<td>20</td>
<td>19 x 0.200</td>
<td>0.97</td>
<td>34.9</td>
<td>2.68 2.76 2.84</td>
<td>19.8</td>
</tr>
<tr>
<td>ASN-E0266 QF 18</td>
<td>3</td>
<td>18</td>
<td>19 x 0.250</td>
<td>1.22</td>
<td>22.1</td>
<td>3.20 3.30 3.40</td>
<td>29.9</td>
</tr>
<tr>
<td>ASN-E0266 QF 16</td>
<td>3</td>
<td>16</td>
<td>19 x 0.300</td>
<td>1.46</td>
<td>15.2</td>
<td>3.70 3.81 3.93</td>
<td>42.1</td>
</tr>
<tr>
<td>ASN-E0266 QF 14</td>
<td>3</td>
<td>14</td>
<td>37 x 0.250</td>
<td>1.71</td>
<td>11.2</td>
<td>4.22 4.35 4.48</td>
<td>56.2</td>
</tr>
<tr>
<td>ASN-E0266 QF 12</td>
<td>3</td>
<td>12</td>
<td>37 x 0.320</td>
<td>2.19</td>
<td>7</td>
<td>5.23 5.39 5.55</td>
<td>90.2</td>
</tr>
<tr>
<td>ASN-E0266 QF 10</td>
<td>3</td>
<td>10</td>
<td>61 x 0.320</td>
<td>2.81</td>
<td>4.2</td>
<td>6.52 6.72 6.92</td>
<td>146.5</td>
</tr>
<tr>
<td>ASN-E0268 RF 26</td>
<td>4</td>
<td>26</td>
<td>19 x 0.100</td>
<td>0.49</td>
<td>164</td>
<td>1.87 1.93 1.99</td>
<td>7.8</td>
</tr>
<tr>
<td>ASN-E0268 RF 24</td>
<td>4</td>
<td>24</td>
<td>19 x 0.120</td>
<td>0.58</td>
<td>117</td>
<td>2.08 2.15 2.21</td>
<td>10.6</td>
</tr>
<tr>
<td>ASN-E0268 RF 22</td>
<td>4</td>
<td>22</td>
<td>19 x 0.160</td>
<td>0.73</td>
<td>64</td>
<td>2.44 2.51 2.59</td>
<td>15.7</td>
</tr>
<tr>
<td>ASN-E0268 RF 20</td>
<td>4</td>
<td>20</td>
<td>19 x 0.200</td>
<td>0.97</td>
<td>34.9</td>
<td>3.00 3.09 3.18</td>
<td>26.4</td>
</tr>
<tr>
<td>ASN-E0268 RF 18</td>
<td>4</td>
<td>18</td>
<td>19 x 0.250</td>
<td>1.22</td>
<td>22.1</td>
<td>3.58 3.69 3.80</td>
<td>39.9</td>
</tr>
<tr>
<td>ASN-E0268 RF 16</td>
<td>4</td>
<td>16</td>
<td>19 x 0.300</td>
<td>1.46</td>
<td>15.2</td>
<td>4.14 4.27 4.40</td>
<td>56.2</td>
</tr>
<tr>
<td>ASN-E0268 RF 14</td>
<td>4</td>
<td>14</td>
<td>37 x 0.250</td>
<td>1.71</td>
<td>11.2</td>
<td>4.73 4.88 5.02</td>
<td>74.9</td>
</tr>
<tr>
<td>ASN-E0268 RF 12</td>
<td>4</td>
<td>12</td>
<td>37 x 0.320</td>
<td>2.19</td>
<td>7</td>
<td>5.85 6.04 6.22</td>
<td>120.3</td>
</tr>
<tr>
<td>ASN-E0268 RF 10</td>
<td>4</td>
<td>10</td>
<td>61 x 0.320</td>
<td>2.81</td>
<td>4.2</td>
<td>7.31 7.53 7.76</td>
<td>195.3</td>
</tr>
</tbody>
</table>
Filotex® Type ASN-E0270
ASN-E0272
ASN-E0274

200°C Operating Temperature Flexible Light Weight Cables Screened and Sheathed Types

Applications
☑ Designed for general Purpose Aircraft Wiring Applications.

Main data
☑ Operating temperature : -55°C to +200°C.(Ambiant + Rise)
☑ Voltage rating : 600 Volts RMS.
☑ Operating frequency : up to 2000 Hz.
☑ Conductor Construction : AECMA EN 2083 Specification
☑ Dimensions and weights : See tables on this data sheet
☑ Very Good Resistance to Aircraft Fluids.
☑ Mould and Fungus Resistant

Identification
☑ Cores Colours : See Tables on this Data Sheet
☑ Sheaths Colours : See Tables on this Data Sheet
☑ Marking:
  - Colour : White on Red and Dark Green wires
    Dark Green on others.
  - Wording : On Cores
    - CF ** A FR F ++
    - CF ** A FR
  - On Sheaths
    - $$ ** £ FR F ++
    - $$ ** £ FR
  - With : $$ = ASN-E Type ( SJ, TK or UD)
  - ** = AWG Wire Size
  - £ = Topcoat Code (U, C or None)
  - FR = Country of Origin (FR = France)
  - F = Manufacturer (F = Filotex®)
  - ++ = Year of Production (ie. 00 = 2000)

Specifications
☑ AECMA EN 2083 (Conductors)
☑ ASN-E0261, ASN-E0270, ASN-E0272, ASN-E0274
☑ NSA 935000, NSA 307 110 AS N°462 205/84, AS 482018/89
☑ SDF/B67-04/A/108/1128

PRODUCT REFERENCES
ASN-E0261 CF
ASN-E0264 PF
ASN-E0266 QF
ASN-E0268 RF
ASN-E0270 SJ
ASN-E0272 TK
ASN-E0274 UD

CONSTRUCTION

CORES (ASN-E0261)

SCREEN
Nickel Plated Copper Spinning

SHEATH
2 FEP/POLYIMIDE/FEP Tapes

COLOURED TOPCOAT
FEP (Laser Markable Optional)

NUMBER OF CORES
ASN-E0270 : 1
ASN-E0272 : 2
ASN-E0274 : 3

Filotex®

ASNE0270 ASNE0272 ASNE0274

Nexans®
### DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>NEXANS CABLE Filotex® PART NUMBER</th>
<th>Nbr of Cores</th>
<th>US AWG</th>
<th>Colours</th>
<th>Maximum DC Resistance at 20°C (68°F) (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Maximum Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASN-E0270 SJ 26 U</td>
<td>1</td>
<td>26</td>
<td>White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0270 SJ 24 U</td>
<td>1</td>
<td>24</td>
<td>Light Blue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0270 SJ 22 U</td>
<td>1</td>
<td>22</td>
<td>Light Green</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0270 SJ 20 U</td>
<td>1</td>
<td>20</td>
<td>Light Blue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0270 SJ 18 U</td>
<td>1</td>
<td>18</td>
<td>White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0270 SJ 16 U</td>
<td>1</td>
<td>16</td>
<td>Light Blue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0270 SJ 14 U</td>
<td>1</td>
<td>14</td>
<td>White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0272 TK 26 U</td>
<td>2</td>
<td>26</td>
<td>White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0272 TK 24 U</td>
<td>2</td>
<td>24</td>
<td>Light Blue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0272 TK 22 U</td>
<td>2</td>
<td>22</td>
<td>1 Red</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0272 TK 20 U</td>
<td>2</td>
<td>20</td>
<td>1 Light Blue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0272 TK 18 U</td>
<td>2</td>
<td>18</td>
<td>Light Blue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0272 TK 16 U</td>
<td>2</td>
<td>16</td>
<td>Light Blue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0272 TK 14 U</td>
<td>2</td>
<td>14</td>
<td>White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0272 TK 12 U</td>
<td>2</td>
<td>12</td>
<td>White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0274 UD 26 U</td>
<td>3</td>
<td>26</td>
<td>White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0274 UD 24 U</td>
<td>3</td>
<td>24</td>
<td>Light Blue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0274 UD 22 U</td>
<td>3</td>
<td>22</td>
<td>White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0274 UD 20 U</td>
<td>3</td>
<td>20</td>
<td>Light Blue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0274 UD 18 U</td>
<td>3</td>
<td>18</td>
<td>White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0274 UD 16 U</td>
<td>3</td>
<td>16</td>
<td>Light Blue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASN-E0274 UD 14 U</td>
<td>3</td>
<td>14</td>
<td>White</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**U = UV Laser Markable**
Filotex®

200°C Operating Temperature
Flexible Light Weight Cables

Applications
- Designed for general Purpose Aircraft Wiring Applications.

Main data
- Operating temperature: -55°C to +200°C,(Ambiant + Rise)
- Voltage rating: 600 Volts RMS.
- Operating frequency: up to 2000 Hz.
- Dimensions and weights: See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification
- Colours (cores and jackets): See table on this data sheet
- Wording: On cores: CF ** A FR F ++*
  On Sheaths: PFG ** FR F ++     (Green)
  With: ** = AWG Wire Size
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex®)
  ++ = Year of Production (ie. 00 = 2000)

Specifications
- AECMA EN 2083 (Conductors)
  EN2266 - 003 (Cores)
  EN2266 - 007 (Cable)
  NSA 935000
  SDF/B67-04/A/108/1128
  EN 3475 - 705 – 706

CONSTRUCTION

CORES
- 2, 3 or 4 CFA elements

SHEATH
- Polyimide tape F2 Type
  K ≥ 20 %
- UV Laser Markable
  FEP Top coat

PRODUCT REFERENCES
- CFA
- CF-U
- PFG QFG RFG
- SJB TKB UDB VLB

Passing on or copying of the document, use or communicate of its content is not permitted without prior written authorization. Information subject to change without notice.
## DIMENSIONS AND WEIGHTS

<table>
<thead>
<tr>
<th>Filotex®</th>
<th>Nbr of cores</th>
<th>US AWG</th>
<th>Colours</th>
<th>Maximum DC resistance at 20°C (68°F) (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Maximum Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFG26</td>
<td>2</td>
<td>26</td>
<td>White</td>
<td>164.8</td>
<td>1.77</td>
<td>1.87</td>
</tr>
<tr>
<td>PFG24</td>
<td>2</td>
<td>24</td>
<td>Light Blue</td>
<td>117.5</td>
<td>1.97</td>
<td>2.07</td>
</tr>
<tr>
<td>PFG22</td>
<td>2</td>
<td>22</td>
<td>White</td>
<td>61.8</td>
<td>2.27</td>
<td>2.39</td>
</tr>
<tr>
<td>PFG20</td>
<td>2</td>
<td>20</td>
<td>Light Blue</td>
<td>34.2</td>
<td>2.77</td>
<td>2.91</td>
</tr>
<tr>
<td>PFG18</td>
<td>2</td>
<td>18</td>
<td>White</td>
<td>21.8</td>
<td>3.25</td>
<td>3.44</td>
</tr>
<tr>
<td>PFG16</td>
<td>2</td>
<td>16</td>
<td>Light Blue</td>
<td>15</td>
<td>3.75</td>
<td>3.96</td>
</tr>
<tr>
<td>PFG14</td>
<td>2</td>
<td>14</td>
<td>White</td>
<td>11.2</td>
<td>4.23</td>
<td>4.49</td>
</tr>
<tr>
<td>QFG26</td>
<td>3</td>
<td>26</td>
<td>White</td>
<td>164.8</td>
<td>1.89</td>
<td>1.99</td>
</tr>
<tr>
<td>QFG24</td>
<td>3</td>
<td>24</td>
<td>Light Blue</td>
<td>117.5</td>
<td>2.11</td>
<td>2.21</td>
</tr>
<tr>
<td>QFG22</td>
<td>3</td>
<td>22</td>
<td>White</td>
<td>61.8</td>
<td>2.43</td>
<td>2.55</td>
</tr>
<tr>
<td>QFG20</td>
<td>3</td>
<td>20</td>
<td>Light Blue</td>
<td>34.2</td>
<td>2.97</td>
<td>3.12</td>
</tr>
<tr>
<td>QFG18</td>
<td>3</td>
<td>18</td>
<td>1 Yellow</td>
<td>21.8</td>
<td>3.49</td>
<td>3.68</td>
</tr>
<tr>
<td>QFG16</td>
<td>3</td>
<td>16</td>
<td>Light Blue</td>
<td>15</td>
<td>4.02</td>
<td>4.24</td>
</tr>
<tr>
<td>QFG14</td>
<td>3</td>
<td>14</td>
<td>White</td>
<td>11.2</td>
<td>4.54</td>
<td>4.80</td>
</tr>
<tr>
<td>QFG12</td>
<td>3</td>
<td>12</td>
<td>White</td>
<td>6.90</td>
<td>5.58</td>
<td>5.74</td>
</tr>
<tr>
<td>RFG26</td>
<td>4</td>
<td>26</td>
<td>White</td>
<td>164.8</td>
<td>2.10</td>
<td>2.22</td>
</tr>
<tr>
<td>RFG24</td>
<td>4</td>
<td>24</td>
<td>Light Blue</td>
<td>117.5</td>
<td>2.34</td>
<td>2.47</td>
</tr>
<tr>
<td>RFG22</td>
<td>4</td>
<td>22</td>
<td>White</td>
<td>61.8</td>
<td>2.70</td>
<td>2.87</td>
</tr>
<tr>
<td>RFG20</td>
<td>4</td>
<td>20</td>
<td>Light Blue</td>
<td>34.8</td>
<td>3.30</td>
<td>3.50</td>
</tr>
<tr>
<td>RFG18</td>
<td>4</td>
<td>18</td>
<td>1 Green</td>
<td>21.8</td>
<td>3.88</td>
<td>4.15</td>
</tr>
<tr>
<td>RFG16</td>
<td>4</td>
<td>16</td>
<td>Light Blue</td>
<td>15</td>
<td>4.49</td>
<td>4.75</td>
</tr>
<tr>
<td>RFG14</td>
<td>4</td>
<td>14</td>
<td>White</td>
<td>11.2</td>
<td>5.07</td>
<td>5.40</td>
</tr>
</tbody>
</table>
**Filotex®**

**200°C Operating Temperature**

Flexible Light Weight Cables

**Applications**
- Designed for general Purpose Aircraft Wiring Applications.

**Main data**
- Operating temperature: -55°C to +200°C (Ambiant + Rise)
- Voltage rating: 600 Volts RMS.
- Operating frequency: up to 2000 Hz.
- Dimensions and weights: See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

**Identification**
- Colours (cores and jackets): See table on this data sheet
- Wording: On cores: \( \text{CF ** A FR F ++} \)
  - On Sheaths: \( \text{SJB ** FR F ++} \) (Green)
  - With: ** = AWG Wire Size
  - FR = Country of Origin (FR = France)
  - F = Manufacturer (F = Filotex®)
  - ++ = Year of Production (ie. 00 = 2000)

**Specifications**
- AECMA EN 2083 (Conductors)
- EN2266 - 003 (Cores)
- NSA 935000
- EN 2713 – 011
- SDF/B67-04/A/108/1128

**PRODUCT REFERENCES**
- CFA
- CF-U
- PFG QFG RFG
  - SJB TKB UDB VLB

**CONSTRUCTION**

**CORES**
- 1, 2, 3 or 4 CFA elements
- PTFE Topcoat

**SCREEN**
- Silver plated copper helicoidal screen

**SHEATH**
- Polyimide tape F1 Type
- UV Laser Markable FEP Top coat

---

Passing on or copying of the document, use or communicate of its content is not permitted without prior written authorization. Information subject to change without notice.
### DIMENSIONS AND WEIGHTS

<table>
<thead>
<tr>
<th>Part number</th>
<th>Nbr of cores</th>
<th>US AWG</th>
<th>Diameter (mm)</th>
<th>Colours</th>
<th>Maximum DC resistance at 20°C (68°F)</th>
<th>Diameter (mm)</th>
<th>Maximum weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJB26</td>
<td>1</td>
<td>26</td>
<td></td>
<td>White</td>
<td>160</td>
<td>1.16</td>
<td>1.22</td>
</tr>
<tr>
<td>SJB24</td>
<td>1</td>
<td>24</td>
<td></td>
<td>White</td>
<td>114</td>
<td>1.26</td>
<td>1.32</td>
</tr>
<tr>
<td>SJB22</td>
<td>1</td>
<td>22</td>
<td>0.08</td>
<td>Vert Pôle White</td>
<td>60</td>
<td>1.41</td>
<td>1.48</td>
</tr>
<tr>
<td>SJB20</td>
<td>1</td>
<td>20</td>
<td></td>
<td>White</td>
<td>33.2</td>
<td>1.66</td>
<td>1.74</td>
</tr>
<tr>
<td>SJB18</td>
<td>1</td>
<td>18</td>
<td></td>
<td>White</td>
<td>21.1</td>
<td>1.90</td>
<td>1.98</td>
</tr>
<tr>
<td>SJB16</td>
<td>1</td>
<td>16</td>
<td></td>
<td>White</td>
<td>14.5</td>
<td>2.19</td>
<td>2.28</td>
</tr>
<tr>
<td>SJB14</td>
<td>1</td>
<td>14</td>
<td>0.10</td>
<td>White</td>
<td>10.9</td>
<td>2.43</td>
<td>2.53</td>
</tr>
<tr>
<td>SJB12</td>
<td>1</td>
<td>12</td>
<td></td>
<td>White</td>
<td>6.8</td>
<td>2.91</td>
<td>3.00</td>
</tr>
<tr>
<td>SJB10</td>
<td>1</td>
<td>10</td>
<td></td>
<td>White</td>
<td>4.1</td>
<td>3.53</td>
<td>3.64</td>
</tr>
<tr>
<td>TKB26</td>
<td>2</td>
<td>26</td>
<td>0.08</td>
<td>White</td>
<td>164.8</td>
<td>1.95</td>
<td>2.05</td>
</tr>
<tr>
<td>TKB24</td>
<td>2</td>
<td>24</td>
<td></td>
<td>Light blue</td>
<td>117.5</td>
<td>2.15</td>
<td>2.26</td>
</tr>
<tr>
<td>TKB22</td>
<td>2</td>
<td>22</td>
<td>1 Red</td>
<td>White</td>
<td>61.8</td>
<td>2.45</td>
<td>2.57</td>
</tr>
<tr>
<td>TKB20</td>
<td>2</td>
<td>20</td>
<td>0.10</td>
<td>1 Blue</td>
<td>34.2</td>
<td>2.99</td>
<td>3.14</td>
</tr>
<tr>
<td>TKB18</td>
<td>2</td>
<td>18</td>
<td></td>
<td>White</td>
<td>21.8</td>
<td>3.47</td>
<td>3.63</td>
</tr>
<tr>
<td>TKB16</td>
<td>2</td>
<td>16</td>
<td>0.12</td>
<td>Light blue</td>
<td>15</td>
<td>4.01</td>
<td>4.17</td>
</tr>
<tr>
<td>TKB14</td>
<td>2</td>
<td>14</td>
<td></td>
<td>White</td>
<td>11.2</td>
<td>4.49</td>
<td>4.67</td>
</tr>
<tr>
<td>UDB26</td>
<td>3</td>
<td>26</td>
<td></td>
<td>White</td>
<td>164.8</td>
<td>2.07</td>
<td>2.18</td>
</tr>
<tr>
<td>UDB24</td>
<td>3</td>
<td>24</td>
<td>0.08</td>
<td>Light blue</td>
<td>117.5</td>
<td>2.29</td>
<td>2.40</td>
</tr>
<tr>
<td>UDB22</td>
<td>3</td>
<td>22</td>
<td>1 Red</td>
<td>White</td>
<td>61.8</td>
<td>2.61</td>
<td>2.74</td>
</tr>
<tr>
<td>UDB20</td>
<td>3</td>
<td>20</td>
<td>0.10</td>
<td>1 Blue</td>
<td>34.2</td>
<td>3.19</td>
<td>3.35</td>
</tr>
<tr>
<td>UDB18</td>
<td>3</td>
<td>18</td>
<td>1 Yellow</td>
<td>White</td>
<td>21.8</td>
<td>3.71</td>
<td>3.87</td>
</tr>
<tr>
<td>UDB16</td>
<td>3</td>
<td>16</td>
<td>0.12</td>
<td>Light blue</td>
<td>15</td>
<td>4.29</td>
<td>4.46</td>
</tr>
<tr>
<td>UDB14</td>
<td>3</td>
<td>14</td>
<td>0.15</td>
<td>White</td>
<td>11.2</td>
<td>4.86</td>
<td>5.06</td>
</tr>
<tr>
<td>UDB12</td>
<td>3</td>
<td>12</td>
<td></td>
<td>White</td>
<td>6.98</td>
<td>5.98</td>
<td>6.16</td>
</tr>
<tr>
<td>VLB26</td>
<td>4</td>
<td>26</td>
<td>0.08</td>
<td>White</td>
<td>164.8</td>
<td>2.28</td>
<td>2.39</td>
</tr>
<tr>
<td>VLB24</td>
<td>4</td>
<td>24</td>
<td>1 Red</td>
<td>Light blue</td>
<td>117.5</td>
<td>2.52</td>
<td>2.64</td>
</tr>
<tr>
<td>VLB22</td>
<td>4</td>
<td>22</td>
<td>0.10</td>
<td>1 Blue</td>
<td>61.8</td>
<td>2.92</td>
<td>3.07</td>
</tr>
<tr>
<td>VLB20</td>
<td>4</td>
<td>20</td>
<td>1 Yellow</td>
<td>Light blue</td>
<td>34.2</td>
<td>3.52</td>
<td>3.70</td>
</tr>
<tr>
<td>VLB18</td>
<td>4</td>
<td>18</td>
<td>0.12</td>
<td>1 Green</td>
<td>21.8</td>
<td>4.14</td>
<td>4.31</td>
</tr>
<tr>
<td>VLB16</td>
<td>4</td>
<td>16</td>
<td></td>
<td>Light blue</td>
<td>15</td>
<td>4.75</td>
<td>4.94</td>
</tr>
</tbody>
</table>
Filotex®

Single UV Laser printable
260°C Operating Temperature Medium Weight Arc Tracking Resistant Cables

Applications
- Designed for general Purpose Aircraft Wiring Applications.

Main data
- Operating temperature: -55°C to +260°C (Ambiant + Rise)
- Voltage rating: 600 Volts RMS.
- Operating frequency: up to 2000 Hz.
- Dimensions and weights: See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant
- Arc Tracking Resistant

CONSTRUCTION

CONDUCTOR
- Stranded Conductor: Nickel Plated High Strength Copper Alloy (AWG 26 & 24) or Nickel Plated Copper (AWG 22 to 6).

INSULATION
- FEP/POLYIMIDE/FEP Tape
- UV PTFE Tape(s)

PRODUCT REFERENCES
- EN 2267-007A
- EN 2267-008A +++

Specifications
- prEN2267-008 for Wires
- prEN4434 for Conductors
- prEN3475 for Tests & Performances
## DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>Code of Nominal Section</th>
<th>Colour Code</th>
<th>US AWG</th>
<th>Conductor</th>
<th>Finshed Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Stranding (Nbr x Dia. of Strands in mm)</td>
<td>Diameter</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Min. Dia. [mm]</td>
<td>Max. Dia. [mm]</td>
</tr>
<tr>
<td>EN 2267-008A</td>
<td>001</td>
<td>S</td>
<td>26</td>
<td>19 x 0.100</td>
<td>0.45</td>
</tr>
<tr>
<td>EN 2267-008A</td>
<td>002</td>
<td>P</td>
<td>24</td>
<td>19 x 0.120</td>
<td>0.55</td>
</tr>
<tr>
<td>EN 2267-008A</td>
<td>004</td>
<td>P</td>
<td>22</td>
<td>19 x 0.150</td>
<td>0.70</td>
</tr>
<tr>
<td>EN 2267-008A</td>
<td>006</td>
<td>P</td>
<td>20</td>
<td>19 x 0.200</td>
<td>0.94</td>
</tr>
<tr>
<td>EN 2267-008A</td>
<td>010</td>
<td>P</td>
<td>18</td>
<td>19 x 0.250</td>
<td>1.18</td>
</tr>
<tr>
<td>EN 2267-008A</td>
<td>012</td>
<td>P</td>
<td>16</td>
<td>19 x 0.300</td>
<td>1.39</td>
</tr>
<tr>
<td>EN 2267-008A</td>
<td>020</td>
<td>P</td>
<td>14</td>
<td>37 x 0.250</td>
<td>1.68</td>
</tr>
<tr>
<td>EN 2267-008A</td>
<td>030</td>
<td>P</td>
<td>12</td>
<td>37 x 0.320</td>
<td>2.12</td>
</tr>
<tr>
<td>EN 2267-008A</td>
<td>051</td>
<td>P</td>
<td>10</td>
<td>61 x 0.320</td>
<td>2.72</td>
</tr>
<tr>
<td>EN 2267-008A</td>
<td>090</td>
<td>P</td>
<td>8</td>
<td>127 x 0.300</td>
<td>-</td>
</tr>
<tr>
<td>EN 2267-008A</td>
<td>140</td>
<td>P</td>
<td>6</td>
<td>27 x 7 x 0.300</td>
<td>-</td>
</tr>
</tbody>
</table>
Unscreened and Unjacketed multicore
260°C Operating Temperature

Characteristics
- Voltage rating: 600 Volts RMS.
- Operating temperature: -55°C to +260°C (Ambient + Rise.)
- Operating frequency: up to 2000 Hz
- Dimensions and weights: see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Arc Tracking Resistant

Identification
- Core Colours
- Marking: see next pages on this data sheet

Applications
- Designed for general Purpose Aircraft Wiring Applications

Specifications
- prEN 4434 for conductors
- prEN 2267-007 for cables
### DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>Code of Nominal section</th>
<th>Colour Code</th>
<th>AWG</th>
<th>Nbr of Cores</th>
<th>Colours</th>
<th>Maximum DC Resistance at 20°C (68°K) (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 2267-007B</td>
<td>001</td>
<td>P</td>
<td>26</td>
<td>2</td>
<td></td>
<td>165</td>
<td>1.73</td>
<td>1.93</td>
</tr>
<tr>
<td>EN 2267-007B</td>
<td>002</td>
<td>P</td>
<td>24</td>
<td>2</td>
<td></td>
<td>117</td>
<td>1.84</td>
<td>2.06</td>
</tr>
<tr>
<td>EN 2267-007B</td>
<td>004</td>
<td>P</td>
<td>22</td>
<td>2</td>
<td></td>
<td>61.7</td>
<td>2.13</td>
<td>2.37</td>
</tr>
<tr>
<td>EN 2267-007B</td>
<td>006</td>
<td>P</td>
<td>20</td>
<td>2</td>
<td></td>
<td>34.1</td>
<td>2.77</td>
<td>3.07</td>
</tr>
<tr>
<td>EN 2267-007B</td>
<td>010</td>
<td>P</td>
<td>18</td>
<td>2</td>
<td></td>
<td>21.7</td>
<td>3.36</td>
<td>3.64</td>
</tr>
<tr>
<td>EN 2267-007B</td>
<td>012</td>
<td>P</td>
<td>16</td>
<td>2</td>
<td></td>
<td>14.9</td>
<td>4.09</td>
<td>4.44</td>
</tr>
<tr>
<td>EN 2267-007B</td>
<td>020</td>
<td>P</td>
<td>14</td>
<td>2</td>
<td></td>
<td>11.2</td>
<td>4.57</td>
<td>4.97</td>
</tr>
<tr>
<td>EN 2267-007B</td>
<td>030</td>
<td>P</td>
<td>12</td>
<td>2</td>
<td></td>
<td>6.99</td>
<td>5.55</td>
<td>5.92</td>
</tr>
<tr>
<td>EN 2267-007B</td>
<td>051</td>
<td>P</td>
<td>10</td>
<td>2</td>
<td></td>
<td>4.22</td>
<td>6.62</td>
<td>7.12</td>
</tr>
<tr>
<td>EN 2267-007B</td>
<td>090</td>
<td>P</td>
<td>8</td>
<td>2</td>
<td></td>
<td>2.37</td>
<td>8.90</td>
<td>9.46</td>
</tr>
<tr>
<td>EN 2267-007B</td>
<td>140</td>
<td>P</td>
<td>6</td>
<td>2</td>
<td></td>
<td>1.63</td>
<td>11.35</td>
<td>12.05</td>
</tr>
<tr>
<td>EN 2267-007C</td>
<td>001</td>
<td>P</td>
<td>26</td>
<td>3</td>
<td></td>
<td>165</td>
<td>1.86</td>
<td>2.08</td>
</tr>
<tr>
<td>EN 2267-007C</td>
<td>002</td>
<td>P</td>
<td>24</td>
<td>3</td>
<td></td>
<td>117</td>
<td>1.99</td>
<td>2.22</td>
</tr>
<tr>
<td>EN 2267-007C</td>
<td>004</td>
<td>P</td>
<td>22</td>
<td>3</td>
<td></td>
<td>61.7</td>
<td>2.29</td>
<td>2.55</td>
</tr>
<tr>
<td>EN 2267-007C</td>
<td>006</td>
<td>P</td>
<td>20</td>
<td>3</td>
<td></td>
<td>34.1</td>
<td>2.99</td>
<td>3.30</td>
</tr>
<tr>
<td>EN 2267-007C</td>
<td>010</td>
<td>P</td>
<td>18</td>
<td>3</td>
<td></td>
<td>21.7</td>
<td>3.62</td>
<td>3.92</td>
</tr>
<tr>
<td>EN 2267-007C</td>
<td>012</td>
<td>P</td>
<td>16</td>
<td>3</td>
<td></td>
<td>14.9</td>
<td>4.41</td>
<td>4.78</td>
</tr>
<tr>
<td>EN 2267-007C</td>
<td>020</td>
<td>P</td>
<td>14</td>
<td>3</td>
<td></td>
<td>11.2</td>
<td>4.92</td>
<td>5.35</td>
</tr>
<tr>
<td>EN 2267-007C</td>
<td>030</td>
<td>P</td>
<td>12</td>
<td>3</td>
<td></td>
<td>6.99</td>
<td>5.98</td>
<td>6.37</td>
</tr>
<tr>
<td>EN 2267-007C</td>
<td>051</td>
<td>P</td>
<td>10</td>
<td>3</td>
<td></td>
<td>4.22</td>
<td>7.13</td>
<td>7.67</td>
</tr>
<tr>
<td>EN 2267-007C</td>
<td>090</td>
<td>P</td>
<td>8</td>
<td>3</td>
<td></td>
<td>2.37</td>
<td>9.59</td>
<td>10.19</td>
</tr>
<tr>
<td>EN 2267-007C</td>
<td>140</td>
<td>P</td>
<td>6</td>
<td>3</td>
<td></td>
<td>1.63</td>
<td>12.23</td>
<td>12.88</td>
</tr>
<tr>
<td>EN 2267-007D</td>
<td>001</td>
<td>P</td>
<td>26</td>
<td>4</td>
<td></td>
<td>165</td>
<td>2.09</td>
<td>2.33</td>
</tr>
<tr>
<td>EN 2267-007D</td>
<td>002</td>
<td>P</td>
<td>24</td>
<td>4</td>
<td></td>
<td>117</td>
<td>2.22</td>
<td>2.49</td>
</tr>
<tr>
<td>EN 2267-007D</td>
<td>004</td>
<td>P</td>
<td>22</td>
<td>4</td>
<td></td>
<td>61.7</td>
<td>2.57</td>
<td>2.86</td>
</tr>
<tr>
<td>EN 2267-007D</td>
<td>006</td>
<td>P</td>
<td>20</td>
<td>4</td>
<td></td>
<td>34.1</td>
<td>3.35</td>
<td>3.70</td>
</tr>
<tr>
<td>EN 2267-007D</td>
<td>010</td>
<td>P</td>
<td>18</td>
<td>4</td>
<td></td>
<td>21.7</td>
<td>4.06</td>
<td>4.39</td>
</tr>
<tr>
<td>EN 2267-007D</td>
<td>012</td>
<td>P</td>
<td>16</td>
<td>4</td>
<td></td>
<td>14.9</td>
<td>4.94</td>
<td>5.36</td>
</tr>
<tr>
<td>EN 2267-007D</td>
<td>020</td>
<td>P</td>
<td>14</td>
<td>4</td>
<td></td>
<td>11.2</td>
<td>5.52</td>
<td>6.00</td>
</tr>
<tr>
<td>EN 2267-007D</td>
<td>030</td>
<td>P</td>
<td>12</td>
<td>4</td>
<td></td>
<td>6.99</td>
<td>6.70</td>
<td>7.14</td>
</tr>
<tr>
<td>EN 2267-007D</td>
<td>051</td>
<td>P</td>
<td>10</td>
<td>4</td>
<td></td>
<td>4.22</td>
<td>7.98</td>
<td>8.60</td>
</tr>
<tr>
<td>EN 2267-007D</td>
<td>090</td>
<td>P</td>
<td>8</td>
<td>4</td>
<td></td>
<td>2.37</td>
<td>10.75</td>
<td>11.41</td>
</tr>
<tr>
<td>EN 2267-007D</td>
<td>140</td>
<td>P</td>
<td>6</td>
<td>4</td>
<td></td>
<td>1.63</td>
<td>13.70</td>
<td>14.55</td>
</tr>
</tbody>
</table>

**Core identification Colours:**
- Two cores (PN) : Red - Blue
- Three cores (QL) : Red - Blue - Yellow
- Four cores (RK) : Red - Blue - Yellow - Green

**Marking : EN DM A ++ FREF**
- ++ = AGW
- FR = Country of Origin (FR = France)
- ** = Year of manufacturing (i.e. 99=1999)

**Cable identification:**
- Two cores : EN 2267-007B (Short designation PN)
- Three cores : EN 2267-007C (Short designation QL)
- Four cores : EN 2267-007D (Short designation RK)
Filotex®

Screened and Jacketed single and multicores
UV Laser printable
260°C Operating Temperature

Characteristics
- Voltage rating : 600 Volts RMS.
- Operating temperature : -55°C to +260°C.(Ambient. + Rise.)
- Operating frequency : up to 2000 Hz
- Dimensions and weights : see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Arc Tracking Resistant

Identification
- Core Colours
- Jacket Colours and Marking : see next pages on this data sheet

Applications
- Designed for general Purpose Aircraft Wiring Applications

Specifications
- prEN 4434 for conductors
- prEN 2267-007A for cores
- prEN 2714-011 for Screened and Jacketed single and multicores

CONSTRUCTION

CORES
1, 2, 3 or 4 Cores EN 2267-007A

SCREEN
2 Nickel-plated copper spiral screen

JACKET
3 Polyimide Tape
4 UV PTFE Tape

PRODUCT REFERENCES
EN 2267-007A
EN 2267-008A
EN 2714-011*+++F

PASSING ON OR COPYING OF THIS DOCUMENT, USE OR COMMUNICATION OF ITS CONTENT IS NOT PERMITTED WITHOUT PRIOR WRITTEN AUTHORIZATION. INFORMATION SUBJECT TO CHANGE WITHOUT NOTICE.
DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>Code of Nominal US Nbr of Cores</th>
<th>Screen diamet of strands nominal diameter (mm)</th>
<th>Screen colours</th>
<th>Colours</th>
<th>Core identification Colours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 2714-011A</td>
<td>001 F 26 1 0.08</td>
<td>Light yellow</td>
<td>White</td>
<td>1 Red</td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>002 F 24 1 0.08</td>
<td>White</td>
<td>Light blue</td>
<td>1 Blue</td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>004 F 22 1 0.08</td>
<td>Light green</td>
<td>White</td>
<td>1 Yellow</td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>006 F 20 1 0.08</td>
<td>White</td>
<td>Light blue</td>
<td>1 Green</td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>010 F 18 1 0.08</td>
<td>White</td>
<td>White</td>
<td>1 Blue</td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>012 F 16 1 0.10</td>
<td>White</td>
<td>Light blue</td>
<td>1 Yellow</td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>020 F 14 1 0.10</td>
<td>White</td>
<td>White</td>
<td>1 Green</td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>030 F 12 1 0.10</td>
<td>White</td>
<td>White</td>
<td>1 Blue</td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>051 F 10 1 0.12</td>
<td>White</td>
<td>White</td>
<td>1 Red</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Code of Nominal section</th>
<th>Colour</th>
<th>AWG</th>
<th>Nbr of Cores</th>
<th>Screen colours</th>
<th>Colours</th>
<th>Jacket</th>
<th>Maximum DC Resistance at 20°C (68K) (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
<th>Nom.</th>
<th>Max.</th>
<th>Nom.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 2714-011A</td>
<td>001 F 26 1 0.08</td>
<td>Light yellow</td>
<td>White</td>
<td>1 Red</td>
<td>1 Blue</td>
<td>1 Yellow</td>
<td>1 Green</td>
<td>1 Red</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>002 F 24 1 0.08</td>
<td>White</td>
<td>Light blue</td>
<td>1 Blue</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>004 F 22 1 0.08</td>
<td>Light green</td>
<td>White</td>
<td>1 Yellow</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>006 F 20 1 0.08</td>
<td>White</td>
<td>Light blue</td>
<td>1 Green</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>010 F 18 1 0.08</td>
<td>White</td>
<td>White</td>
<td>1 Blue</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>012 F 16 1 0.10</td>
<td>White</td>
<td>Light blue</td>
<td>1 Yellow</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>020 F 14 1 0.10</td>
<td>White</td>
<td>White</td>
<td>1 Green</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>030 F 12 1 0.10</td>
<td>White</td>
<td>White</td>
<td>1 Blue</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-011A</td>
<td>051 F 10 1 0.12</td>
<td>White</td>
<td>White</td>
<td>1 Red</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Core identification Colours:
- One core (GJ): White except code 001: Light Yellow and code 004: Light Green
- Two cores (MH): Red - Blue
- Three cores (UU): Red - Blue - Yellow
- Four cores (VY): Red - Blue - Yellow - Green

Marking: EN DMA + + FRF**

Jacket identification:
- White except code 002/006/012: Light Blue

Marking: EN xx + + FRF**

xx = Short designation (GJ, MH, UU, VY)  F = Manufacturer (F = Filotex®)
++ = Awg  ** = Year of manufacturing (ie. 99 = 1999)
FR = Country of Origin (FR = France)

140 – 146 rue E. Delacroix / BP 1
F – 91211 Draveil cedex – FRANCE
Tel : +33 1 69 83 78 00
Fax : +33 1 69 42 05 70

- 62 -
UV Laser printable Wire
260°C Operating Temperature Light Weight
Arc Tracking Resistant

Applications
- Designed for general Purpose Aircraft Wiring Applications.

Main data
- Operating temperature: -55°C to +260°C (Ambiant + Rise)
- Voltage rating: 600 Volts RMS.
- Operating frequency: up to 2000 Hz.
- Dimensions and weights: See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant
- Arc Tracking Resistant

Identification
- Wire Standard
  Colour: White Except AWG 26 Which is Light Yellow
  and AWG 22 Which is Light Green.
- Marking: EN DR ** FRF++
  With: ** = AWG Wire Size
  DR = Short designation
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex®)
  ++ = Year of Manufacturing (ie. 02 = 2002)
  Colour: Green

Specifications
- prEN2267-010 product standard
- prEN4434 for Conductors AWG 26 to 6
- prEN2083 for Conductors AWG 4 to 2
- prEN3475 for Tests & Performances

CONSTRUCTION

CONDUCTOR
1. Stranded Conductor:
   Nickel Plated High
   Strength Copper Alloy
   (AWG 26 & 24) or
   Nickel Plated Copper
   (AWG 22 to 2).

INSULATION
2. Special Polymide Tape
3. Special UV PTFE Tape(s)
## DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>Code of Nominal Section</th>
<th>Colour</th>
<th>US AWG</th>
<th>Stranding (Nbr x Dia. of Strands in mm)</th>
<th>Diameter</th>
<th>Maximum DC Resistance at 20°C (68°F)</th>
<th>Diameter</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 2267-010A</td>
<td>001</td>
<td>S</td>
<td>26</td>
<td>19 x 0.100</td>
<td>0.47</td>
<td>0.49</td>
<td>160.0</td>
<td>0.75</td>
</tr>
<tr>
<td>EN 2267-010A</td>
<td>002</td>
<td>S</td>
<td>24</td>
<td>19 x 0.120</td>
<td>0.555</td>
<td>0.585</td>
<td>114.0</td>
<td>0.85</td>
</tr>
<tr>
<td>EN 2267-010A</td>
<td>004</td>
<td>S</td>
<td>22</td>
<td>19 x 0.150</td>
<td>0.71</td>
<td>0.73</td>
<td>60.0</td>
<td>1.00</td>
</tr>
<tr>
<td>EN 2267-010A</td>
<td>006</td>
<td>S</td>
<td>20</td>
<td>19 x 0.200</td>
<td>0.94</td>
<td>0.97</td>
<td>33.2</td>
<td>1.22</td>
</tr>
<tr>
<td>EN 2267-010A</td>
<td>010</td>
<td>S</td>
<td>18</td>
<td>19 x 0.250</td>
<td>1.19</td>
<td>1.22</td>
<td>21.1</td>
<td>1.46</td>
</tr>
<tr>
<td>EN 2267-010A</td>
<td>012</td>
<td>S</td>
<td>16</td>
<td>19 x 0.300</td>
<td>1.41</td>
<td>1.45</td>
<td>14.5</td>
<td>1.76</td>
</tr>
<tr>
<td>EN 2267-010A</td>
<td>020</td>
<td>S</td>
<td>14</td>
<td>37 x 0.250</td>
<td>1.69</td>
<td>1.73</td>
<td>10.9</td>
<td>2.04</td>
</tr>
<tr>
<td>EN 2267-010A</td>
<td>030</td>
<td>S</td>
<td>12</td>
<td>37 x 0.320</td>
<td>2.13</td>
<td>2.18</td>
<td>6.8</td>
<td>2.50</td>
</tr>
<tr>
<td>EN 2267-010A</td>
<td>051</td>
<td>S</td>
<td>10</td>
<td>61 x 0.320</td>
<td>2.73</td>
<td>2.77</td>
<td>4.1</td>
<td>3.13</td>
</tr>
<tr>
<td>EN 2267-010A</td>
<td>090</td>
<td>S</td>
<td>8</td>
<td>127 x 0.300</td>
<td>3.55</td>
<td>3.85</td>
<td>2.3</td>
<td>4.10</td>
</tr>
<tr>
<td>EN 2267-010A</td>
<td>140</td>
<td>S</td>
<td>6</td>
<td>27 x 7 x 0.300</td>
<td>4.80</td>
<td>5.20</td>
<td>1.58</td>
<td>5.30</td>
</tr>
<tr>
<td>EN 2267-010A</td>
<td>220</td>
<td>S</td>
<td>4</td>
<td>37 x 12 x 0.250</td>
<td>-</td>
<td>6.80</td>
<td>0.97</td>
<td>6.71</td>
</tr>
<tr>
<td>EN 2267-010A</td>
<td>340</td>
<td>S</td>
<td>2</td>
<td>37 x 19 x 0.250</td>
<td>-</td>
<td>8.60</td>
<td>0.61</td>
<td>8.28</td>
</tr>
</tbody>
</table>
Multicores DRA

Characteristics
- Voltage rating: 600 Volts RMS.
- Operating temperature: -55°C to +260°C (Ambient + Rise).
- Operating frequency: up to 2000 Hz.
- Dimensions and weights: see table on this data sheet.
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant.
- Arc Tracking Resistant.

Applications
- Designed for general Purpose Aircraft Wiring Applications.

Specifications
- prEN2267-009 Product Standard.
- prEN2267-002 General Specification.

CONSTRUCTION

CORES
- 2, 3 or 4 Cores.
- EN 2267-009A.
### DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>Code of Nominal section</th>
<th>Colour Code</th>
<th>US AWG</th>
<th>Nbr of Cores</th>
<th>Colours</th>
<th>Maximum DC Resistance at 20°C (Ω/mm²)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 2267-009B</td>
<td>001</td>
<td>P</td>
<td>26</td>
<td>2</td>
<td>1 Red</td>
<td>165</td>
<td>1.56</td>
<td>1.68</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>117</td>
<td>1.82</td>
<td>1.92</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Blue</td>
<td>61.7</td>
<td>2.10</td>
<td>2.20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>34.1</td>
<td>2.60</td>
<td>2.68</td>
</tr>
<tr>
<td>EN 2267-009B</td>
<td>012</td>
<td>P</td>
<td>16</td>
<td>2</td>
<td>1 Red</td>
<td>21.7</td>
<td>3.08</td>
<td>3.22</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>14.9</td>
<td>3.66</td>
<td>3.84</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Blue</td>
<td>11.2</td>
<td>4.32</td>
<td>4.48</td>
</tr>
<tr>
<td>EN 2267-009B</td>
<td>020</td>
<td>P</td>
<td>14</td>
<td>2</td>
<td>1 Red</td>
<td>6.99</td>
<td>5.14</td>
<td>5.40</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4.22</td>
<td>6.42</td>
<td>6.66</td>
</tr>
<tr>
<td>EN 2267-009B</td>
<td>030</td>
<td>P</td>
<td>12</td>
<td>2</td>
<td>1 Red</td>
<td>2.27</td>
<td>8.60</td>
<td>8.80</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.63</td>
<td>11.10</td>
<td>11.40</td>
</tr>
<tr>
<td>EN 2267-009B</td>
<td>220</td>
<td>P</td>
<td>4</td>
<td>2</td>
<td>1 Red</td>
<td>1</td>
<td>14.12</td>
<td>14.82</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>165</td>
<td>1.68</td>
<td>1.81</td>
</tr>
<tr>
<td>EN 2267-009C</td>
<td>001</td>
<td>P</td>
<td>26</td>
<td>3</td>
<td>1 Red</td>
<td>165</td>
<td>1.68</td>
<td>1.81</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>117</td>
<td>1.96</td>
<td>2.06</td>
</tr>
<tr>
<td>EN 2267-009C</td>
<td>004</td>
<td>P</td>
<td>22</td>
<td>3</td>
<td>1 Red</td>
<td>61.7</td>
<td>2.26</td>
<td>2.37</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>34.1</td>
<td>2.80</td>
<td>2.88</td>
</tr>
<tr>
<td>EN 2267-009C</td>
<td>006</td>
<td>P</td>
<td>20</td>
<td>3</td>
<td>1 Red</td>
<td>21.7</td>
<td>3.32</td>
<td>3.46</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>14.9</td>
<td>3.94</td>
<td>4.13</td>
</tr>
<tr>
<td>EN 2267-009C</td>
<td>010</td>
<td>P</td>
<td>18</td>
<td>3</td>
<td>1 Red</td>
<td>11.2</td>
<td>4.65</td>
<td>4.82</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6.99</td>
<td>5.54</td>
<td>5.81</td>
</tr>
<tr>
<td>EN 2267-009C</td>
<td>012</td>
<td>P</td>
<td>16</td>
<td>3</td>
<td>1 Red</td>
<td>4.22</td>
<td>6.82</td>
<td>7.16</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.37</td>
<td>9.27</td>
<td>9.46</td>
</tr>
<tr>
<td>EN 2267-009C</td>
<td>140</td>
<td>P</td>
<td>6</td>
<td>3</td>
<td>1 Red</td>
<td>1</td>
<td>15.21</td>
<td>15.93</td>
</tr>
<tr>
<td>EN 2267-009C</td>
<td>220</td>
<td>P</td>
<td>4</td>
<td>3</td>
<td>1 Red</td>
<td>165</td>
<td>1.88</td>
<td>2.02</td>
</tr>
<tr>
<td>EN 2267-009D</td>
<td>001</td>
<td>P</td>
<td>26</td>
<td>4</td>
<td>1 Red</td>
<td>165</td>
<td>1.88</td>
<td>2.02</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>117</td>
<td>2.20</td>
<td>2.30</td>
</tr>
<tr>
<td>EN 2267-009D</td>
<td>004</td>
<td>P</td>
<td>22</td>
<td>4</td>
<td>1 Red</td>
<td>61.7</td>
<td>2.89</td>
<td>3.04</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>34.1</td>
<td>3.14</td>
<td>3.32</td>
</tr>
<tr>
<td>EN 2267-009D</td>
<td>006</td>
<td>P</td>
<td>20</td>
<td>4</td>
<td>1 Red</td>
<td>21.7</td>
<td>3.72</td>
<td>3.86</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>14.9</td>
<td>4.42</td>
<td>4.61</td>
</tr>
<tr>
<td>EN 2267-009D</td>
<td>012</td>
<td>P</td>
<td>16</td>
<td>4</td>
<td>1 Red</td>
<td>11.2</td>
<td>5.21</td>
<td>5.38</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6.99</td>
<td>6.20</td>
<td>6.48</td>
</tr>
<tr>
<td>EN 2267-009D</td>
<td>020</td>
<td>P</td>
<td>14</td>
<td>4</td>
<td>1 Red</td>
<td>4.22</td>
<td>7.75</td>
<td>7.99</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.37</td>
<td>10.38</td>
<td>10.56</td>
</tr>
<tr>
<td>EN 2267-009D</td>
<td>090</td>
<td>P</td>
<td>8</td>
<td>4</td>
<td>1 Red</td>
<td>1.63</td>
<td>13.40</td>
<td>13.68</td>
</tr>
<tr>
<td>EN 2267-009D</td>
<td>140</td>
<td>P</td>
<td>6</td>
<td>4</td>
<td>1 Red</td>
<td>1</td>
<td>17.04</td>
<td>17.78</td>
</tr>
</tbody>
</table>

**Core identification Colours:**
- Two cores (DRB): Red - Blue
- Three cores (DRC): Red - Blue - Yellow
- Four cores (DRD): Red - Blue - Yellow - Green

Marking: EN DRA **FRF++**

Colour: White for Red and Green core. Green for Blue and Yellow core.

With: ** = AWG Wire Size  
DRA = Short designation  
FR = Country of Origin (FR = France)  
F = Manufacturer (F = Filotex®)  
++ = Year of Manufacturing (ie. 03 = 2003)
Filotex®

260 °C, S/J, Light Weight, UV Arc Tracking Resistant

Characteristics
- Voltage rating: 600 Volts RMS.
- Operating temperature: -55°C to +260°C (Ambient + Rise.)
- Operating frequency: up to 2000 Hz
- Dimensions and weights: see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Arc Tracking Resistant

Identification
- Core Colours
- Jacket Colours
- Marking: see next pages on this data sheet

Applications
- Designed for general Purpose Aircraft Wiring Applications

Specifications
- prEN 4434 for conductors
- prEN 2267-009 for cores
- prEN 2714-013 for Screened and Jacketed single and multicores

CONSTRUCTION

CORES
1, 2, 3 or 4 Cores EN 2267-009A

SCREEN
2 Nickel-plated copper spiral screen

JACKET
3 Polyimide Tape
4 UV PTFE Tape

PRODUCT REFERENCES
EN 2267-009A
EN 2267-010A
EN 2714-013* +++F
## DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>Code of Nominal section</th>
<th>Code Colour</th>
<th>US AWG</th>
<th>Nbr of Cores</th>
<th>Screen strands nominal diameter (mm)</th>
<th>Screen Finished Wire</th>
<th>Finished Wire Colours</th>
<th>Jacket</th>
<th>Maximum DC Resistance at 20°C (68°F) (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013A</td>
<td>001 F 26</td>
<td>1</td>
<td>0.08</td>
<td>Light yellow White</td>
<td>160</td>
<td>1.23 1.31 4.35 4.68</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013A</td>
<td>002 F 24</td>
<td>1</td>
<td>0.08</td>
<td>White Light blue</td>
<td>114</td>
<td>1.36 1.45 5.37 5.76</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013A</td>
<td>004 F 22</td>
<td>1</td>
<td>0.08</td>
<td>Light green White</td>
<td>60</td>
<td>1.50 1.60 6.97 7.51</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013A</td>
<td>006 F 20</td>
<td>1</td>
<td>0.08</td>
<td>White Light blue</td>
<td>33.2</td>
<td>1.75 1.84 10.28 10.77</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013A</td>
<td>010 F 18</td>
<td>1</td>
<td>0.08</td>
<td>White White</td>
<td>21.1</td>
<td>1.99 2.08 14.47 14.97</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013A</td>
<td>012 F 16</td>
<td>1</td>
<td>0.10</td>
<td>White White</td>
<td>14.5</td>
<td>2.32 2.43 19.95 20.97</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013A</td>
<td>020 F 14</td>
<td>1</td>
<td>0.10</td>
<td>White White</td>
<td>10.9</td>
<td>2.65 2.74 26.17 27.03</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013A</td>
<td>030 F 12</td>
<td>1</td>
<td>0.10</td>
<td>White White</td>
<td>6.8</td>
<td>3.06 3.20 37.31 39.70</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013A</td>
<td>051 F 10</td>
<td>1</td>
<td>0.12</td>
<td>White White</td>
<td>4.1</td>
<td>3.74 3.89 58.72 61.94</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013B</td>
<td>001 F 26</td>
<td>2</td>
<td>0.08</td>
<td>White</td>
<td>165</td>
<td>2.01 2.13 7.63 8.17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013B</td>
<td>002 F 24</td>
<td>2</td>
<td>0.08</td>
<td>Light blue</td>
<td>117</td>
<td>2.27 2.40 9.58 10.23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013B</td>
<td>004 F 22</td>
<td>2</td>
<td>0.08</td>
<td>White</td>
<td>61.7</td>
<td>2.55 2.70 12.70 13.64</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013B</td>
<td>006 F 20</td>
<td>2</td>
<td>0.10</td>
<td>Light blue</td>
<td>34.1</td>
<td>3.09 3.22 20.17 21.05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013B</td>
<td>010 F 18</td>
<td>2</td>
<td>0.10</td>
<td>White</td>
<td>21.7</td>
<td>3.57 3.71 28.62 29.52</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013B</td>
<td>012 F 16</td>
<td>2</td>
<td>0.12</td>
<td>Light blue</td>
<td>14.9</td>
<td>4.19 4.38 39.30 41.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013B</td>
<td>020 F 14</td>
<td>2</td>
<td>0.15</td>
<td>White</td>
<td>11.2</td>
<td>4.91 5.04 54.19 55.83</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013B</td>
<td>030 F 12</td>
<td>2</td>
<td>0.20</td>
<td>White</td>
<td>6.99</td>
<td>5.83 6.09 81.80 86.79</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013B</td>
<td>051 F 10</td>
<td>2</td>
<td>0.20</td>
<td>White</td>
<td>4.22</td>
<td>7.11 7.39 123.94 130.51</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013C</td>
<td>001 F 26</td>
<td>3</td>
<td>0.08</td>
<td>White</td>
<td>165</td>
<td>2.13 2.26 10.25 10.94</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013C</td>
<td>002 F 24</td>
<td>3</td>
<td>0.10</td>
<td>White</td>
<td>117</td>
<td>2.45 2.59 13.83 14.72</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013C</td>
<td>004 F 22</td>
<td>3</td>
<td>0.10</td>
<td>White</td>
<td>61.7</td>
<td>2.75 2.91 18.45 19.76</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013C</td>
<td>006 F 20</td>
<td>3</td>
<td>0.12</td>
<td>White</td>
<td>34.1</td>
<td>3.33 3.48 29.23 30.44</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013C</td>
<td>010 F 18</td>
<td>3</td>
<td>0.12</td>
<td>White</td>
<td>21.7</td>
<td>3.85 4.00 41.75 42.96</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013C</td>
<td>012 F 16</td>
<td>3</td>
<td>0.15</td>
<td>White</td>
<td>14.9</td>
<td>4.53 4.73 57.96 60.67</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013C</td>
<td>020 F 14</td>
<td>3</td>
<td>0.15</td>
<td>White</td>
<td>11.2</td>
<td>5.25 5.39 76.59 78.83</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013C</td>
<td>030 F 12</td>
<td>3</td>
<td>0.20</td>
<td>White</td>
<td>6.99</td>
<td>6.23 6.50 115.68 122.72</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013C</td>
<td>051 F 10</td>
<td>3</td>
<td>0.20</td>
<td>White</td>
<td>4.22</td>
<td>7.61 7.90 177.31 186.69</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013D</td>
<td>001 F 26</td>
<td>4</td>
<td>0.10</td>
<td>White</td>
<td>165</td>
<td>2.37 2.51 13.69 14.57</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013D</td>
<td>002 F 24</td>
<td>4</td>
<td>0.10</td>
<td>White</td>
<td>117</td>
<td>2.69 2.84 17.37 18.47</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013D</td>
<td>004 F 22</td>
<td>4</td>
<td>0.10</td>
<td>White</td>
<td>61.7</td>
<td>3.03 3.19 23.4 25.04</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013D</td>
<td>006 F 20</td>
<td>4</td>
<td>0.12</td>
<td>White</td>
<td>34.1</td>
<td>3.67 3.82 37.31 38.81</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013D</td>
<td>010 F 18</td>
<td>4</td>
<td>0.12</td>
<td>White</td>
<td>21.7</td>
<td>4.25 4.41 53.73 55.22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013D</td>
<td>012 F 16</td>
<td>4</td>
<td>0.15</td>
<td>White</td>
<td>14.9</td>
<td>5.01 5.23 74.58 78.02</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2714-013D</td>
<td>020 F 14</td>
<td>4</td>
<td>0.20</td>
<td>White</td>
<td>11.2</td>
<td>5.91 6.06 104.39 107.36</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Core identification Colours:
- One core (MLA): White except code 001: Light Yellow code 004: Light Green
- Two cores (MLB): Red - Blue
- Three cores (MLC): Red - Blue - Yellow
- Four cores (MLD): Red - Blue - Yellow - Green

Marking: EN DRA ++ FRF**

Colour: White for Red and Green core. Green for Blue and Yellow core.

### Jacket identification:
- White except code 002/006/012: Light Blue

Marking: EN xxx ++ FRF**

Colour: Green

** = Year of manufacturing (ie. 02 = 2002)

---

*FR = Country of Origin (FR = France) F = Manufacturer (F = Filotex)*
260 °C, S/J, Light Weight, UV
Arc Tracking Resistant

Characteristics
- Voltage rating: 600 Volts RMS.
- Operating temperature: -55°C to +260°C (Ambient + Rise).
- Operating frequency: up to 2000 Hz.
- Dimensions and weights: see table on this data sheet.
- Very Good Resistance to Aircraft Fluids.
- Arc Tracking Resistant.

Identification
- Core Colours
- Jacket Colours and Marking: see next pages on this data sheet.

Applications
- Designed for general Purpose Aircraft Wiring Applications.

Specifications
- prEN 4434 for conductors.
- prEN 2267-009 for cores.
- prEN 2714-014 for Screened and Jacketed multicores.

PRODUCT REFERENCES
- EN 2267-009A
- EN 2267-010A
- EN 2714-014* ++£

CONSTRUCTION

CORES
1. Cores EN 2267-009A
2. Polymide Tape

SCREEN
3. Nickel plated copper braid

JACKET
4. Polymide Tape
   UV PTFE Tape
## DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>Code of Nominal section</th>
<th>Colour Code</th>
<th>US AWG</th>
<th>Nbr of Cores</th>
<th>Screen Strands nominal diameter (mm)</th>
<th>Colours</th>
<th>Maximum DC Resistance at 20°C (68°K) (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 2714-014E</td>
<td>010 J</td>
<td>18</td>
<td>5</td>
<td>0.12</td>
<td>1 White</td>
<td>White</td>
<td>21.7</td>
<td>5.03</td>
<td>5.26</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Blue</td>
<td>Light blue</td>
<td>14.9</td>
<td>5.82</td>
<td>6.10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Yellow</td>
<td>White</td>
<td>11.2</td>
<td>6.71</td>
<td>7.05</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Red</td>
<td>Light blue</td>
<td>6.99</td>
<td>7.94</td>
<td>8.41</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Green</td>
<td>White</td>
<td>117</td>
<td>3.61</td>
<td>3.80</td>
</tr>
<tr>
<td>EN 2714-014E</td>
<td>012 J</td>
<td>16</td>
<td>5</td>
<td>0.12</td>
<td>1 White</td>
<td>White</td>
<td>21.7</td>
<td>5.03</td>
<td>5.26</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Blue</td>
<td>Light blue</td>
<td>14.9</td>
<td>5.82</td>
<td>6.10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Yellow</td>
<td>White</td>
<td>11.2</td>
<td>6.71</td>
<td>7.05</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Red</td>
<td>Light blue</td>
<td>6.99</td>
<td>7.94</td>
<td>8.41</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Green</td>
<td>White</td>
<td>117</td>
<td>3.61</td>
<td>3.80</td>
</tr>
<tr>
<td>EN 2714-014E</td>
<td>020 J</td>
<td>14</td>
<td>5</td>
<td>0.12</td>
<td>1 Black</td>
<td>Light blue</td>
<td>6.99</td>
<td>7.94</td>
<td>8.41</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Blue</td>
<td>Light blue</td>
<td>6.99</td>
<td>7.94</td>
<td>8.41</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Yellow</td>
<td>Light blue</td>
<td>6.99</td>
<td>7.94</td>
<td>8.41</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Red</td>
<td>Light blue</td>
<td>6.99</td>
<td>7.94</td>
<td>8.41</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Green</td>
<td>Light blue</td>
<td>6.99</td>
<td>7.94</td>
<td>8.41</td>
</tr>
<tr>
<td>EN 2714-014G</td>
<td>002 G</td>
<td>24</td>
<td>7</td>
<td>0.12</td>
<td>1 Red</td>
<td>White</td>
<td>117</td>
<td>3.61</td>
<td>3.80</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Blue</td>
<td>White</td>
<td>117</td>
<td>3.61</td>
<td>3.80</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Yellow</td>
<td>White</td>
<td>117</td>
<td>3.61</td>
<td>3.80</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 Brown</td>
<td>White</td>
<td>117</td>
<td>3.61</td>
<td>3.80</td>
</tr>
</tbody>
</table>

### Core Colours:

- Five cores (MME) :
  - (Code H) Black – Blue – Yellow – Red – Green

- Seven cores (MMG) :
  - (Code G) Red – Blue – Yellow – Green – White – Black – Brown

Marking: EN DRA ++ FRF**

Colour: White for Black / Red / Brown and Green core.

  Green for Blue / Yellow and White core.

### Jacket Colours:

See table.

Marking: EN xxx ++ FRF**

Colour: Green

- xxx = Short designation (MME, MMG)
- ++ = Awg
- FR = Country of Origin (FR = France)
- F = Manufacturer (F = Filotex®)
- ** = Year of manufacturing (ie. 02 = 2002)
Part 2

Cables for power transmission
Polyimide Insulated Aluminium Wire

Applications
- Aircraft.

Specifications
- BMS 13-35 dated 23 December 1992,
- MIL-W-7072.

Characteristics
- Voltage rating : 600 Volts RMS,
- Low operating temperature : -65 °C,
- Temperature rating : +177 °C,
- Dimensions and weight : see table on reverse of this datasheet,
- Flexible cables, large gauge,
- Low density,
- Good resistance to aircraft fluids.

Filotex® BMS 13-35

---

PRODUCT REFERENCES

BMS 13-35
BMS

CONSTRUCTION

CONDUCTOR
1. Stranded Aluminium conductor.

INSULATION
2. Polyimide Tapes 100 per cent fused together.
### PHYSICAL DETAILS OF CONDUCTOR (Metric Units)

<table>
<thead>
<tr>
<th>US</th>
<th>Nominal</th>
<th>Number of Strands</th>
<th>Diameter</th>
<th>Max Resistance at 20°C (68°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Conductor</td>
<td>Core Layer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Area (mm²)</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>8.4</td>
<td>41 x 0.51</td>
<td>4.37</td>
<td>5.00</td>
</tr>
<tr>
<td>6</td>
<td>14.3</td>
<td>14 x 0.51</td>
<td>5.66</td>
<td>6.30</td>
</tr>
<tr>
<td>4</td>
<td>21.9</td>
<td>37 x 0.51</td>
<td>6.86</td>
<td>7.59</td>
</tr>
<tr>
<td>2</td>
<td>34.3</td>
<td>6x7x0.51</td>
<td>8.43</td>
<td>9.32</td>
</tr>
<tr>
<td>1</td>
<td>44.7</td>
<td>10x7x0.51</td>
<td>9.40</td>
<td>10.29</td>
</tr>
<tr>
<td>1/0</td>
<td>52.9</td>
<td>7 x 0.51</td>
<td>10.67</td>
<td>11.56</td>
</tr>
<tr>
<td>2/0</td>
<td>68.2</td>
<td>7 x 0.51</td>
<td>12.09</td>
<td>13.08</td>
</tr>
<tr>
<td>3/0</td>
<td>87.2</td>
<td>7 x 0.51</td>
<td>13.54</td>
<td>14.53</td>
</tr>
<tr>
<td>4/0</td>
<td>106.8</td>
<td>7 x 0.51</td>
<td>14.86</td>
<td>15.85</td>
</tr>
</tbody>
</table>

### Type I DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>US AWG</th>
<th>Outside Diameter</th>
<th>Maximum Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Min. (mm)</td>
<td>Max. (mm)</td>
</tr>
<tr>
<td>BMS 13-35 T I C1 G.8</td>
<td>8</td>
<td>4.37</td>
<td>5.00</td>
</tr>
<tr>
<td>BMS 13-35 T I C1 G.6</td>
<td>6</td>
<td>5.66</td>
<td>6.30</td>
</tr>
<tr>
<td>BMS 13-35 T I C1 G.4</td>
<td>4</td>
<td>6.86</td>
<td>7.59</td>
</tr>
<tr>
<td>BMS 13-35 T I C1 G.2</td>
<td>2</td>
<td>8.43</td>
<td>9.32</td>
</tr>
<tr>
<td>BMS 13-35 T I C1 G.1</td>
<td>1</td>
<td>9.40</td>
<td>10.29</td>
</tr>
<tr>
<td>BMS 13-35 T I C1 G.1/0</td>
<td>1/0</td>
<td>10.67</td>
<td>11.56</td>
</tr>
<tr>
<td>BMS 13-35 T I C1 G.2/0</td>
<td>2/0</td>
<td>12.09</td>
<td>13.08</td>
</tr>
<tr>
<td>BMS 13-35 T I C1 G.3/0</td>
<td>3/0</td>
<td>13.54</td>
<td>14.53</td>
</tr>
<tr>
<td>BMS 13-35 T I C1 G.4/0</td>
<td>4/0</td>
<td>14.86</td>
<td>15.85</td>
</tr>
</tbody>
</table>

### Type II DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>US AWG</th>
<th>Outside Diameter</th>
<th>Maximum Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Min. (mm)</td>
<td>Max. (mm)</td>
</tr>
<tr>
<td>BMS 13-35 T II C1 G.8</td>
<td>8</td>
<td>4.57</td>
<td>5.56</td>
</tr>
<tr>
<td>BMS 13-35 T II C1 G.6</td>
<td>6</td>
<td>5.84</td>
<td>6.86</td>
</tr>
<tr>
<td>BMS 13-35 T II C1 G.4</td>
<td>4</td>
<td>7.04</td>
<td>8.15</td>
</tr>
<tr>
<td>BMS 13-35 T II C1 G.2</td>
<td>2</td>
<td>8.64</td>
<td>9.88</td>
</tr>
<tr>
<td>BMS 13-35 T II C1 G.1</td>
<td>1</td>
<td>9.60</td>
<td>10.85</td>
</tr>
<tr>
<td>BMS 13-35 T II C1 G.1/0</td>
<td>1/0</td>
<td>10.85</td>
<td>12.12</td>
</tr>
<tr>
<td>BMS 13-35 T II C1 G.2/0</td>
<td>2/0</td>
<td>12.27</td>
<td>13.64</td>
</tr>
<tr>
<td>BMS 13-35 T II C1 G.3/0</td>
<td>3/0</td>
<td>13.72</td>
<td>15.09</td>
</tr>
<tr>
<td>BMS 13-35 T II C1 G.4/0</td>
<td>4/0</td>
<td>15.04</td>
<td>16.41</td>
</tr>
</tbody>
</table>
PRODUCT REFERENCES

ASNE0438 YV

CONSTRUCTION

CONDUCTOR
A Stranded Conductor
Made of Nickel Plated Aluminium

INSULATION
3 POLYIMIDE Tapes

EXTERNAL PROTECTION
An Aromatic Polyamide Braid Impregnated with a Non Flammable Varnish

Flexible Nickel Plated Aluminium Light Weight Wires
Single Core Large Sizes

Applications
- Designed for general Purpose Aircraft Wiring Applications.

Main data
- Operating temperature : -55°C to +180°C (Ambiant + Rise) (up to + 200°C Peak)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Conductor Construction : AECMA EN 3719 Specification
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification
- By Colored Threads Between Polyimide Tapes and External Braid
  1, 2 or 3 Threads for Manufacturer : i.e. Black + Grey = Filotex®
  2 Treads for Year of Manufacturing : i.e. Blue + Orange = 2000
- Wires Size AWG 06, 03, 01, 00 and 0000 are identified with 1 black carrier in the external Aromatic Polyamide braid

Specifications
- AECMA EN 3719 (Conductors)
- ASN-E0438
- NSA 935000
- NSA 307110
- AS N°462396/85
- FAR 25-869

Filotex® ASNE0438
**DIMENSIONS AND WEIGHTS (Metric Units)**

<table>
<thead>
<tr>
<th>FILOTEX PART NUMBER</th>
<th>US AWG</th>
<th>Stranding (m x n x Diam. in mm)</th>
<th>Diam. (mm)</th>
<th>Nbr of Strands Missing Allowed</th>
<th>Maximum DC Resistance at 20°C (68°F) (Ω/Km)</th>
<th>Diameter (mm)</th>
<th>Maximum Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>YV-1-06</td>
<td>6</td>
<td>7 x 10 x 0.51</td>
<td>5.0 ± 0.25</td>
<td>0</td>
<td>2.20</td>
<td>5.7</td>
<td>6.3</td>
</tr>
<tr>
<td>YV-1-04</td>
<td>4</td>
<td>7 x 15 x 0.51</td>
<td>6.1 ± 0.30</td>
<td>0</td>
<td>1.50</td>
<td>6.8</td>
<td>7.4</td>
</tr>
<tr>
<td>YV-1-03</td>
<td>3</td>
<td>7 x 19 x 0.51</td>
<td>6.8 ± 0.30</td>
<td>0</td>
<td>1.18</td>
<td>7.7</td>
<td>8.1</td>
</tr>
<tr>
<td>YV-1-02</td>
<td>2</td>
<td>7 x 24 x 0.51</td>
<td>7.7 ± 0.30</td>
<td>2</td>
<td>0.94</td>
<td>8.4</td>
<td>9.0</td>
</tr>
<tr>
<td>YV-1-01</td>
<td>1</td>
<td>7 x 30 x 0.51</td>
<td>8.6 ± 0.30</td>
<td>2</td>
<td>0.75</td>
<td>9.3</td>
<td>9.9</td>
</tr>
<tr>
<td>YV-1-0A</td>
<td>0</td>
<td>19 x 14 x 0.51</td>
<td>10.0 ± 0.30</td>
<td>3</td>
<td>0.60</td>
<td>10.7</td>
<td>11.5</td>
</tr>
<tr>
<td>YV-1-00</td>
<td>00</td>
<td>19 x 18 x 0.51</td>
<td>11.4 ± 0.30</td>
<td>3</td>
<td>0.43</td>
<td>12.1</td>
<td>13.1</td>
</tr>
<tr>
<td>YV-1-0000</td>
<td>0000</td>
<td>19 x 22 x 0.51</td>
<td>12.7 ± 0.30</td>
<td>4</td>
<td>0.36</td>
<td>13.3</td>
<td>14.5</td>
</tr>
<tr>
<td>YV-1-00000</td>
<td>00000</td>
<td>37 x 15 x 0.51</td>
<td>14.45 ± 0.35</td>
<td>5</td>
<td>0.29</td>
<td>15.1</td>
<td>16.3</td>
</tr>
</tbody>
</table>

°F = AWG not defined in ASN Specification, values obtained by extension with defined construction
Filotex® Type NSA 935 308
150°C Operating Temperature

Flexible Aluminium Alloy conductor
Single Core Large Sizes

Applications
☐ Designed for general Purpose Aircraft Wiring Applications.

Main data
☐ Operating temperature : -55°C to +150°C.(Ambiant + Rise))
☐ Voltage rating : 600 Volts RMS.
☐ Operating frequency : up to 2000 Hz.
☐ Conductor Construction : AECMA EN 3719 Specification
☐ Dimensions and weights : See table on this data sheet
☐ Very Good Resistance to Aircraft Fluids.
☐ Mould and Fungus Resistant

Identification
☐ By Colored Threads Between Polyimide Tapes and External Braid
  Manufacturer colour: Black + Grey = Filotex®
  Manufacturing year : Blue + Brown = 2003

Specifications
☐ AECMA EN 3719 (Conductors)
☐ NSA935308
☐ NSA 935000
☐ NSA 307110
☐ FAR 25-1359

Filotex® NSA 935308
### DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>FILOTEX PART NUMBER</th>
<th>US AWG</th>
<th>Stranding (m x n x Diam. in mm)</th>
<th>Diam. (mm)</th>
<th>Nbr of Strands Missing Allowed</th>
<th>Maximum DC Resistance at 20°C (68°F) [Ohms/Km]</th>
<th>Diameter (mm)</th>
<th>Maximum Weight [g/m]</th>
</tr>
</thead>
<tbody>
<tr>
<td>YU 12&lt;sup&gt;2&lt;/sup&gt;</td>
<td>12</td>
<td>45 x 0.30</td>
<td>2.4 ±0.20</td>
<td>0</td>
<td>10</td>
<td>3.2</td>
<td>3.45</td>
</tr>
<tr>
<td>YU 10&lt;sup&gt;2&lt;/sup&gt;</td>
<td>10</td>
<td>27 x 0.51</td>
<td>2.9 ±0.20</td>
<td>0</td>
<td>5.8</td>
<td>3.6</td>
<td>4.0</td>
</tr>
<tr>
<td>YU 8&lt;sup&gt;2&lt;/sup&gt;</td>
<td>8</td>
<td>41 x 0.51</td>
<td>3.7 ±0.20</td>
<td>0</td>
<td>3.8</td>
<td>4.4</td>
<td>4.8</td>
</tr>
<tr>
<td>YU 6&lt;sup&gt;2&lt;/sup&gt;</td>
<td>6</td>
<td>7 x 10 x 0.51</td>
<td>5.0 ±0.25</td>
<td>0</td>
<td>2.2</td>
<td>5.7</td>
<td>6.3</td>
</tr>
<tr>
<td>YU 4&lt;sup&gt;2&lt;/sup&gt;</td>
<td>4</td>
<td>7 x 15 x 0.51</td>
<td>6.1 ±0.30</td>
<td>0</td>
<td>1.5</td>
<td>6.8</td>
<td>7.4</td>
</tr>
<tr>
<td>YU 3&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
<td>7 x 19 x 0.51</td>
<td>6.8 ±0.30</td>
<td>0</td>
<td>1.18</td>
<td>7.7</td>
<td>8.1</td>
</tr>
<tr>
<td>YU 2&lt;sup&gt;2&lt;/sup&gt;</td>
<td>2</td>
<td>7 x 24 x 0.51</td>
<td>7.7 ±0.30</td>
<td>2</td>
<td>0.94</td>
<td>8.4</td>
<td>9.0</td>
</tr>
<tr>
<td>YU 1&lt;sup&gt;2&lt;/sup&gt;</td>
<td>1</td>
<td>7 x 30 x 0.51</td>
<td>8.6 ±0.30</td>
<td>2</td>
<td>0.75</td>
<td>9.3</td>
<td>9.9</td>
</tr>
<tr>
<td>YU 0&lt;sup&gt;2&lt;/sup&gt;</td>
<td>0</td>
<td>19 x 14 x 0.51</td>
<td>10.0 ±0.30</td>
<td>3</td>
<td>0.66</td>
<td>10.7</td>
<td>11.5</td>
</tr>
<tr>
<td>YU 00&lt;sup&gt;2&lt;/sup&gt;</td>
<td>00</td>
<td>19 x 18 x 0.51</td>
<td>11.4 ±0.30</td>
<td>3</td>
<td>0.43</td>
<td>12.1</td>
<td>13.1</td>
</tr>
<tr>
<td>YU 000&lt;sup&gt;2&lt;/sup&gt;</td>
<td>000</td>
<td>19 x 22 x 0.51</td>
<td>12.7 ±0.30</td>
<td>4</td>
<td>0.36</td>
<td>13.3</td>
<td>14.5</td>
</tr>
<tr>
<td>YU 0000&lt;sup&gt;2&lt;/sup&gt;</td>
<td>0000</td>
<td>37 x 15 x 0.51</td>
<td>14.45 ±0.35</td>
<td>5</td>
<td>0.29</td>
<td>15.1</td>
<td>16.3</td>
</tr>
</tbody>
</table>

<sup>2</sup> = AWG not designed in NSA Specification, values obtained by extension with defined construction
Part 3

Nacelles and engines: High temperature, fire resistant-proof cables
Applications
- Designed for general Purpose Aircraft Wiring Applications.

Main data
- Temperature rating: -55°C / +260°C (Ambiant. + Rise.)
- Voltage rating: 600 Volts RMS.
- Operating frequency: up to 2000 Hz.
- Dimensions and weights: see table on this data sheet.
- Very good resistance to Aircraft Fluids.
- Arc Tracking Resistant

Identification
- Colour: White
- Marking: VG95218T020J**£ F 0241 ++ DG
  ** = Dash N°
  £ = Colour (9 = White)
  ++ = Year of production (ie. : 00 = 2000)
  DG = Cable code according to TR 6058
  F 0241 = Manufacturer’s Cage code

Specifications
- VG 95218-2 (May 1998)
- VG 95218-20 (Feb 2000)
## DIMENSIONS AND WEIGHTS (METRIC UNITS)

**TYPE J**: Single core nickel plated copper.

<table>
<thead>
<tr>
<th>VG Reference</th>
<th>NEXANS Part Number</th>
<th>Dash Code (VG)</th>
<th>Size Code (NEXANS)</th>
<th>AWG</th>
<th>Conductor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Stranding</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Nbr x Diam of strands</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(mm)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Max. Diameter</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(mm)</td>
</tr>
<tr>
<td>VG 95218T020J019</td>
<td>FX 5400-050</td>
<td>01</td>
<td>050</td>
<td>10</td>
<td>73 x 0.30</td>
</tr>
<tr>
<td>VG 95218T020J029</td>
<td>FX 5400-090</td>
<td>02</td>
<td>090</td>
<td>8</td>
<td>127 x 0.30</td>
</tr>
<tr>
<td>VG 95218T020J039</td>
<td>FX 5400-140</td>
<td>03</td>
<td>140</td>
<td>6</td>
<td>27 x 7 x 0.30</td>
</tr>
<tr>
<td>VG 95218T020J049</td>
<td>FX 5400-220</td>
<td>04</td>
<td>220</td>
<td>4</td>
<td>37 x 12 x 0.25</td>
</tr>
<tr>
<td>VG 95218T020J059</td>
<td>FX 5400-340</td>
<td>05</td>
<td>340</td>
<td>2</td>
<td>37 x 19 x 0.25</td>
</tr>
<tr>
<td>VG 95218T020J069</td>
<td>FX 5400-420</td>
<td>06</td>
<td>420</td>
<td>1</td>
<td>37 x 23 x 0.25</td>
</tr>
<tr>
<td>VG 95218T020J079</td>
<td>FX 5400-530</td>
<td>07</td>
<td>530</td>
<td>0</td>
<td>37 x 29 x 0.25</td>
</tr>
<tr>
<td>VG 95218T020J089</td>
<td>FX 5400-680</td>
<td>08</td>
<td>680</td>
<td>00</td>
<td>37 x 37 x 0.25</td>
</tr>
<tr>
<td>VG 95218T020J099</td>
<td>FX 5400-850</td>
<td>09</td>
<td>850</td>
<td>000</td>
<td>48 x 36 x 0.25</td>
</tr>
<tr>
<td>VG 95218T020J109</td>
<td>FX 5400-107</td>
<td>10</td>
<td>107</td>
<td>0000</td>
<td>61 x 36 x 0.25</td>
</tr>
</tbody>
</table>

(1) = For Information only.

## Finished Wire

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
<th>Maximum DC Resistance at 20°C (68°F) (Ohms/Km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min.</td>
<td>Max.</td>
<td>Max.</td>
</tr>
<tr>
<td>4.1</td>
<td>4.5</td>
<td>64.5</td>
</tr>
<tr>
<td>5.2</td>
<td>5.6</td>
<td>108</td>
</tr>
<tr>
<td>6.3</td>
<td>7.3</td>
<td>160</td>
</tr>
<tr>
<td>8.1</td>
<td>9.3</td>
<td>245</td>
</tr>
<tr>
<td>9.7</td>
<td>10.9</td>
<td>396</td>
</tr>
<tr>
<td>10.6</td>
<td>12.1</td>
<td>470</td>
</tr>
<tr>
<td>11.8</td>
<td>13.4</td>
<td>600</td>
</tr>
<tr>
<td>13.6</td>
<td>14.5</td>
<td>750</td>
</tr>
<tr>
<td>15.6</td>
<td>16.8</td>
<td>950</td>
</tr>
<tr>
<td>17.0</td>
<td>18.4</td>
<td>1200</td>
</tr>
</tbody>
</table>
260°C Operating High Temperature Aircraft wire

**Applications**
- Designed for general Purpose Aircraft Wiring Applications.

**Main data**
- Temperature rating : -55°C / +260°C (Ambiant. + Rise.)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : see table on this data sheet.
- Very good resistance to Aircraft Fluids.
- Mould and Fungus Resistant
- Non flammable

**CONSTRUCTION**

**CONDUCTOR**
- Stranded conductor
- Nickel Plated Copper.

**INSULATION**
- Polyimide tape
- PTFE tape(s)
- Glass fiber tape
- PTFE tape(s)

**Identification**
- Colour: White

**Specifications**
- NSA935131

**PRODUCT REFERENCES**
- NSA 935 131 DG ++

**NSA 935 131 DG**
### DIMENSIONS AND WEIGHTS (METRIC UNITS)

<table>
<thead>
<tr>
<th>NEXANS Part Number</th>
<th>Nominal section (mm²)</th>
<th>AWG</th>
<th>Conductor Stranding Nbr x Dia. of strands (mm)</th>
<th>Diameter Max. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSA 935 131 DG 10</td>
<td>5.15</td>
<td>10</td>
<td>73 x 0.30</td>
<td>3.3</td>
</tr>
<tr>
<td>NSA 935 131 DG 8</td>
<td>8.98</td>
<td>8</td>
<td>127 x 0.30</td>
<td>4.5</td>
</tr>
<tr>
<td>NSA 935 131 DG 6</td>
<td>13.4</td>
<td>6</td>
<td>27 x 7 x 0.30</td>
<td>5.6</td>
</tr>
<tr>
<td>NSA 935 131 DG 4</td>
<td>21.8</td>
<td>4</td>
<td>37 x 12 x 0.25</td>
<td>7.3</td>
</tr>
<tr>
<td>NSA 935 131 DG 2</td>
<td>34.5</td>
<td>2</td>
<td>37 x 19 x 0.25</td>
<td>8.8</td>
</tr>
<tr>
<td>NSA 935 131 DG 1</td>
<td>41.8</td>
<td>1</td>
<td>37 x 23 x 0.25</td>
<td>10.0</td>
</tr>
<tr>
<td>NSA 935 131 DG 0</td>
<td>52.7</td>
<td>0</td>
<td>37 x 29 x 0.25</td>
<td>11.3</td>
</tr>
<tr>
<td>NSA 935 131 DG 00</td>
<td>67.2</td>
<td>00</td>
<td>37 x 37 x 0.25</td>
<td>12.5</td>
</tr>
<tr>
<td>NSA 935 131 DG 000</td>
<td>84.8</td>
<td>000</td>
<td>48 x 36 x 0.25</td>
<td>14.4</td>
</tr>
<tr>
<td>NSA 935 131 DG 0000</td>
<td>107.8</td>
<td>0000</td>
<td>61 x 36 x 0.25</td>
<td>15.9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NEXANS Part Number</th>
<th>Finished Wire Diameter Min. (mm)</th>
<th>Weight Max. (mm)</th>
<th>Maximum DC Max. (g/m)</th>
<th>Resistance at 20°C (68°F) (Ohms/Km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSA 935 131 DG 10</td>
<td>4.1</td>
<td>4.5</td>
<td>64.5</td>
<td>3.9</td>
</tr>
<tr>
<td>NSA 935 131 DG 8</td>
<td>5.2</td>
<td>5.6</td>
<td>108</td>
<td>2.3</td>
</tr>
<tr>
<td>NSA 935 131 DG 6</td>
<td>6.3</td>
<td>7.3</td>
<td>160</td>
<td>1.6</td>
</tr>
<tr>
<td>NSA 935 131 DG 4</td>
<td>8.1</td>
<td>9.3</td>
<td>245</td>
<td>0.97</td>
</tr>
<tr>
<td>NSA 935 131 DG 2</td>
<td>9.7</td>
<td>10.9</td>
<td>396</td>
<td>0.61</td>
</tr>
<tr>
<td>NSA 935 131 DG 1</td>
<td>10.6</td>
<td>12.1</td>
<td>470</td>
<td>0.50</td>
</tr>
<tr>
<td>NSA 935 131 DG 0</td>
<td>11.8</td>
<td>13.4</td>
<td>600</td>
<td>0.40</td>
</tr>
<tr>
<td>NSA 935 131 DG 00</td>
<td>13.6</td>
<td>14.5</td>
<td>750</td>
<td>0.31</td>
</tr>
<tr>
<td>NSA 935 131 DG 000</td>
<td>15.6</td>
<td>16.8</td>
<td>950</td>
<td>0.25</td>
</tr>
<tr>
<td>NSA 935 131 DG 0000</td>
<td>17.0</td>
<td>18.4</td>
<td>1200</td>
<td>0.20</td>
</tr>
</tbody>
</table>
Filotex®

High Temperature Aircraft Wire

Applications
- Designed for general purpose aircraft wiring where exposure to thermal changes and corrosive fluids is normal.

Main data
- Voltage/Frequency Rating: 600 Volts RMS/2000 Hz Max.
- Operating Temperature: -65°C (-85°F) to +260°C (+500°F)
- Dimensions and weights: See Tables on This Data Sheet.
- Abrasion resistant
- Resistant to aircraft fluids
- Good mechanical and electrical performances

CONSTRUCTION

CONDUCTOR
1. Nickel coated Copper
2. Nickel coated copper alloy (Type 1)

INSULATION
2. PTFE tape
3. Polyimide tape
4. PTFE coated glass tape (AWG 8 to 0000 only)
5. PTFE coated glass braid
6. PTFE tapes Jacket

PRODUCT REFERENCES
- BMS 13-58 T1
- BMS 13-58 T5
- BMS 13-58 T2 to T9

Specification
- BMS 13-58 QPL

Product range
- Shielded and jacketed T3, T7, T9 cables are available upon request
- Shielded T2, T6 cables are available upon request
- Jacketed T4, T8 cables are available upon request
### DIMENSIONS AND WEIGHTS (METRIC UNITS)

#### TYPE 1

<table>
<thead>
<tr>
<th>FILOTEX®</th>
<th>US</th>
<th>Conductor</th>
<th>Finished Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART NUMBER</td>
<td>AWG</td>
<td>(Nbr of Strands x Dia. of Strands in mm)</td>
<td>Diameter</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>24</td>
<td>19 x 0.127</td>
<td>0.58</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>22</td>
<td>19 x 0.16</td>
<td>0.74</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>18</td>
<td>19 x 0.20</td>
<td>0.94</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>16</td>
<td>19 x 0.25</td>
<td>1.17</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>14</td>
<td>19 x 0.30</td>
<td>1.32</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>12</td>
<td>19 x 0.36</td>
<td>1.65</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>10</td>
<td>19 x 0.40</td>
<td>2.69</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>8</td>
<td>19 x 0.40</td>
<td>4.01</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>6</td>
<td>19 x 0.45</td>
<td>5.03</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>4</td>
<td>19 x 0.50</td>
<td>6.35</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>2</td>
<td>19 x 0.60</td>
<td>8.13</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>0</td>
<td>19 x 0.75</td>
<td>10.03</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>00</td>
<td>19 x 0.75</td>
<td>11.18</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>000</td>
<td>19 x 0.75</td>
<td>12.7</td>
</tr>
<tr>
<td>BMS 13-58 T1</td>
<td>0000</td>
<td>19 x 0.75</td>
<td>14.35</td>
</tr>
</tbody>
</table>

---

### TYPE 5

<table>
<thead>
<tr>
<th>FILOTEX®</th>
<th>US</th>
<th>Conductor</th>
<th>Finished Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART NUMBER</td>
<td>AWG</td>
<td>(Nbr of Strands x Dia. of Strands in mm)</td>
<td>Diameter</td>
</tr>
<tr>
<td>BMS 13-58 T5</td>
<td>24</td>
<td>19 x 0.127</td>
<td>0.58</td>
</tr>
<tr>
<td>BMS 13-58 T5</td>
<td>22</td>
<td>19 x 0.16</td>
<td>0.74</td>
</tr>
<tr>
<td>BMS 13-58 T5</td>
<td>18</td>
<td>19 x 0.20</td>
<td>0.94</td>
</tr>
<tr>
<td>BMS 13-58 T5</td>
<td>16</td>
<td>19 x 0.25</td>
<td>1.17</td>
</tr>
<tr>
<td>BMS 13-58 T5</td>
<td>14</td>
<td>19 x 0.30</td>
<td>1.32</td>
</tr>
</tbody>
</table>
Type 2100

Flexible cables for high ambient temperatures

To AIR 4524, B.N.Aé, MIL-W-22759 D & B.M.S. 13-58
These cables are approved by the Air Ministry under letters:
N°42707 STA/EQ/E2 (03-12-68)
Registered at the B.N.Aé : N° 6418 401
Operating voltage: 600 volts RMS
Operating temperature: - 50°C to + 250°C (ambient + rise)

Characteristics:
- These cables are designed for use at high ambient temperatures up to 289°C at peak,
- Excellent flame resistance,
- Non-flammable,
- They withstand most solvents.

Technical requirements and control conditions:
- Air4524 Specification of September 1965 – Category 250/280°C,

Interchangeability:

CONSTRUCTION

1) CONDUCTOR:
   Stranded nickel plated copper

2) Thin wrapped PTFE layer

3) INSULATION:
   Polyimide

4) OUTER JACKET:
   a) from 0.38 to 1.34 mm²:
      extruded PTFE sheath (high abrasion resistance)
   b) from 1.91 mm²:
      composite glass fiber + PTFE + wrapped and sintered PTFE sheath.

Colour coding: according to AIR0107 (10/1961).

PRODUCT REFERENCES

| 2100 | 1050 |

Passing on or copying of the document, use or communicate of its content is not permitted without prior written authorization. Information subject to change without notice.
## MECHANICAL & ELECTRICAL VALUES

<table>
<thead>
<tr>
<th>References</th>
<th>Gauge</th>
<th>CONDUCTOR</th>
<th>CORE</th>
<th>ELECTRICAL VALUES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Cross Sectional</td>
<td>AWG</td>
<td>n x Ø mm</td>
<td>Nominal diameter</td>
</tr>
<tr>
<td>2100</td>
<td>0.38</td>
<td>22</td>
<td>12 x 0.20</td>
<td>0.85</td>
</tr>
<tr>
<td>2100</td>
<td>0.60</td>
<td>20</td>
<td>19 x 0.20</td>
<td>1.00</td>
</tr>
<tr>
<td>2100</td>
<td>0.98</td>
<td>18</td>
<td>19 x 0.25</td>
<td>1.25</td>
</tr>
<tr>
<td>2100</td>
<td>1.34</td>
<td>16</td>
<td>19 x 0.30</td>
<td>1.50</td>
</tr>
<tr>
<td>2100</td>
<td>1.91</td>
<td>14</td>
<td>27 x 0.30</td>
<td>1.85</td>
</tr>
<tr>
<td>2100</td>
<td>3.18</td>
<td>12</td>
<td>45 x 0.30</td>
<td>2.40</td>
</tr>
<tr>
<td>2100</td>
<td>5.15</td>
<td>10</td>
<td>73 x 0.30</td>
<td>3.10</td>
</tr>
<tr>
<td>2100</td>
<td>8.98</td>
<td>8</td>
<td>127 x 0.30</td>
<td>4.00</td>
</tr>
<tr>
<td>2100</td>
<td>13.40</td>
<td>6</td>
<td>27 x 7 x 0.30</td>
<td>5.10</td>
</tr>
<tr>
<td>2100</td>
<td>21.80</td>
<td>4</td>
<td>37 x 12 x 0.25</td>
<td>6.60</td>
</tr>
<tr>
<td>2100</td>
<td>34.50</td>
<td>2</td>
<td>37 x 19 x 0.25</td>
<td>8.10</td>
</tr>
<tr>
<td>2100</td>
<td>41.80</td>
<td>1</td>
<td>37 x 23 x 0.25</td>
<td>9.80</td>
</tr>
<tr>
<td>2100</td>
<td>52.70</td>
<td>0</td>
<td>37 x 29 x 0.25</td>
<td>10.80</td>
</tr>
<tr>
<td>2100</td>
<td>67.20</td>
<td>00</td>
<td>37 x 37 x 0.25</td>
<td>12.40</td>
</tr>
</tbody>
</table>

The currents shown are valid for single wires in air. For current ratings of bundles see Air 7822 Specification.
Flexible cables for high ambient temperatures
Lightweight cables

To AIR 4524, B.N.Aé
These cables are approved by the Air Ministry under letters:
N°34456 STA/EQ/E2 (03-05-74)
Registered at the B.N.Aé : N° 6418 403
Operating voltage: 600 volts RMS
Operating temperature: - 50°C to + 250°C (ambient + rise)

Characteristics:
- These cables may be used at high ambient temperatures, up to 280°C at peak,
- Excellent flame resistance,
- Non-flammable,
- They withstand most solvents.

Technical requirements and control conditions:
- Air4524 Specification - Category 250/280°C,
### MECHANICAL & ELECTRICAL VALUES

<table>
<thead>
<tr>
<th>References</th>
<th>Gauge</th>
<th>Type</th>
<th>Cross Sectional area</th>
<th>AWG</th>
<th>n x Ø mm</th>
<th>Nominal diameter</th>
<th>Tensile Strength</th>
<th>Overall diameter</th>
<th>Average Weight</th>
<th>D.C. Resistance at 20°C (maxi.)</th>
<th>Current rating</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2102</td>
<td>0.21</td>
<td>24</td>
<td>19 x 0.12 N.P.All.</td>
<td>0.58</td>
<td>7</td>
<td>1.40 ± 0.10</td>
<td>5.0</td>
<td>112.3</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2102</td>
<td>0.38</td>
<td>22</td>
<td>12 x 0.20 N.P.C.</td>
<td>0.77</td>
<td>8</td>
<td>1.60 ± 0.10</td>
<td>7.1</td>
<td>54.5</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2102</td>
<td>0.60</td>
<td>20</td>
<td>19 x 0.20 N.P.C.</td>
<td>0.97</td>
<td>16</td>
<td>1.80 ± 0.10</td>
<td>9.2</td>
<td>34.4</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2102</td>
<td>0.93</td>
<td>18</td>
<td>19 x 0.25 N.P.C.</td>
<td>1.21</td>
<td>&gt; 20</td>
<td>2.05 ± 0.10</td>
<td>13.0</td>
<td>22.0</td>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2102</td>
<td>1.34</td>
<td>16</td>
<td>19 x 0.30 N.P.C.</td>
<td>1.45</td>
<td>&gt; 20</td>
<td>2.30 ± 0.10</td>
<td>17.5</td>
<td>15.3</td>
<td>22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2102</td>
<td>1.91</td>
<td>14</td>
<td>27 x 0.30 N.P.C.</td>
<td>1.74</td>
<td>&gt; 20</td>
<td>2.70 ± 0.15</td>
<td>24.8</td>
<td>10.8</td>
<td>32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2102</td>
<td>3.18</td>
<td>12</td>
<td>45 x 0.30 N.P.C.</td>
<td>2.25</td>
<td>&gt; 20</td>
<td>3.25 ± 0.15</td>
<td>38.2</td>
<td>6.4</td>
<td>41</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The currents shown are valid for single wires in air. For current ratings of bundles see Air 7822 Specification.

N.P.All. = nickel plated annealed copper alloy – N.P.C. = nickel plated annealed electrolytic copper
Flexible cables for high ambient temperatures

To AIR 4524, B.N.Aé, MIL-W-22759B
These cables are approved by the Air Ministry under letters:
N°34672 STA/EQ/E3 (25-05-77) for cross-section from 0.38 mm² to 107.80 mm²
N°34672 STA/EQ/E3 (22-12-77) for cross-section 0.21 mm²
Registered at the B.N.Aé: N° 6418 404 A
Operating voltage: 600 volts RMS
Operating temperature: -90°C to +260°C (ambient + rise)

Characteristics:
- These cables may be used at high ambient temperatures, up to 300°C at peak,
- Vital circuits: they withstand overloads for 15 seconds to 2 minutes (870°C to 1040°C) according to MIL-W-7139 B Standard,
- Non-flammable,
- Excellent soldering resistance,
- Good abrasion resistance,
- They withstand most solvents.

Technical requirements and control conditions:
- Air4524 Specification - Category 250/280°C,
- NF-L 52-125A French Draft Specification (high temperature cable),

CONSTRUCTION

1 CONDUCTOR:
Stranded nickel plated copper or nickel plated copper alloy for 0.21 sq mm size (alloy providing a high mechanical resistance)

2 Thin PTFE layer

3 INSULATION:
Polyimide insulation

4 PROTECTIVE INSULATION:
- PTFE + glass fiber tape coated with PTFE,
- wrapped PTFE finish sheath
These tapes are intimately bonded to each other.
### MECHANICAL & ELECTRICAL VALUES

<table>
<thead>
<tr>
<th>Type</th>
<th>Cross Sectional Area</th>
<th>AWG</th>
<th>n x Ø mm</th>
<th>mm diameter</th>
<th>Tensile Strength</th>
<th>Overall diameter (max.)</th>
<th>Average Weight</th>
<th>D.C. Resistance at 20°C (max.)</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>2103</td>
<td>0.21 24</td>
<td>0.65</td>
<td>7</td>
<td>1.80</td>
<td>5.60</td>
<td>112.30</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>0.38 22</td>
<td>0.85</td>
<td>8</td>
<td>1.95</td>
<td>7</td>
<td>54.50</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>0.60 20</td>
<td>1.03</td>
<td>16</td>
<td>2.10</td>
<td>9.40</td>
<td>34.40</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>0.93 18</td>
<td>1.28</td>
<td>&gt; 20</td>
<td>2.20</td>
<td>13</td>
<td>22.00</td>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>1.34 16</td>
<td>1.53</td>
<td>&gt; 20</td>
<td>2.80</td>
<td>18</td>
<td>15.30</td>
<td>22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>1.91 14</td>
<td>1.87</td>
<td>&gt; 20</td>
<td>3.20</td>
<td>25</td>
<td>10.80</td>
<td>32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>3.18 12</td>
<td>2.40</td>
<td>&gt; 20</td>
<td>3.70</td>
<td>38.5</td>
<td>6.40</td>
<td>41</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>5.15 10</td>
<td>3.10</td>
<td>&gt; 20</td>
<td>4.35</td>
<td>60</td>
<td>3.98</td>
<td>55</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>8.98 8</td>
<td>4.20</td>
<td>&gt; 20</td>
<td>5.55</td>
<td>101</td>
<td>2.29</td>
<td>75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>13.40 6</td>
<td>5.60</td>
<td>&gt; 20</td>
<td>7.30</td>
<td>148</td>
<td>1.58</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>21.80 4</td>
<td>7.30</td>
<td>&gt; 20</td>
<td>9.30</td>
<td>227</td>
<td>0.97</td>
<td>135</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>34.50 2</td>
<td>8.80</td>
<td>&gt; 20</td>
<td>10.90</td>
<td>367</td>
<td>0.61</td>
<td>181</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>41.80 1</td>
<td>9.80</td>
<td>&gt; 20</td>
<td>12.10</td>
<td>430</td>
<td>0.50</td>
<td>211</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>52.70 0</td>
<td>10.80</td>
<td>&gt; 20</td>
<td>13.40</td>
<td>540</td>
<td>0.40</td>
<td>245</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>67.20 00</td>
<td>12.40</td>
<td>&gt; 20</td>
<td>14.50</td>
<td>675</td>
<td>0.31</td>
<td>283</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>84.80 0000</td>
<td>13.80</td>
<td>&gt; 20</td>
<td>16.90</td>
<td>965</td>
<td>0.25</td>
<td>328</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2103</td>
<td>107.80 00000</td>
<td>15.80</td>
<td>&gt; 20</td>
<td>18.70</td>
<td>1150</td>
<td>0.19</td>
<td>380</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The currents shown are valid for single wires in air. For current ratings of bundles see Air 7822 Specification.

N.P.All. = nickel plated annealed copper alloy – N.P.C. = nickel plated annealed electrolytic copper

Other colour codings on request (stripes or printed identification).
Filotex®

Screened cables for high ambient temperatures

To AIR 4524, B.N.Aé, MIL-W-22759 D & B.M.S. 13-58
Operating voltage: 600 volts RMS
Operating temperature: -50°C to +250°C (ambient + rise)

Characteristics:
Same as 2100 cores. Moreover, the overall polyimide and PTFE sheaths provide the following advantages:
- Very good electrical insulation of the screen,
- Very efficient protection of the screen against oxidation and corrosion,
- Easy fitting of the cable,
- Good mechanical protection of the screen,
- Safer handling.

Technical requirements and control conditions:
- Cores: see data sheet on type ‘2100’,
- Screen: MIL-7078 of August 1971,
### MECHANICAL & ELECTRICAL VALUES

#### 2100 CORES

<table>
<thead>
<tr>
<th>References</th>
<th>Type</th>
<th>Nb. cores</th>
<th>Cross sectional area</th>
<th>AWG</th>
<th>$n \times \varnothing$ mm</th>
<th>Overall diameter of the core mm</th>
<th>Colour of cores</th>
<th>Screen strands</th>
<th>PTFE outer sheath</th>
<th>Overall diameter (max.) mm</th>
<th>Average weight g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>1050 1</td>
<td>0.38</td>
<td>22</td>
<td>12 x 0.20 NPC</td>
<td>1.90</td>
<td>White</td>
<td>12/100</td>
<td>White</td>
<td>12/100</td>
<td>White</td>
<td>20.8</td>
<td></td>
</tr>
<tr>
<td>1050 1</td>
<td>0.60</td>
<td>20</td>
<td>19 x 0.20 NPC</td>
<td>2.20</td>
<td>Light blue</td>
<td>12/100</td>
<td>Blue</td>
<td>12/100</td>
<td>Blue</td>
<td>25.9</td>
<td></td>
</tr>
<tr>
<td>1050 1</td>
<td>1.34</td>
<td>16</td>
<td>19 x 0.25 NPC</td>
<td>2.40</td>
<td>White</td>
<td>12/100</td>
<td>White</td>
<td>12/100</td>
<td>White</td>
<td>30.8</td>
<td></td>
</tr>
<tr>
<td>1050 1</td>
<td>1.91</td>
<td>14</td>
<td>27 x 0.30 NPC</td>
<td>2.95</td>
<td>White</td>
<td>12/100</td>
<td>White</td>
<td>12/100</td>
<td>White</td>
<td>44.3</td>
<td></td>
</tr>
<tr>
<td>1050 2</td>
<td>0.38</td>
<td>22</td>
<td>12 x 0.20 NPC</td>
<td>1.90</td>
<td>White + blue</td>
<td>12/100</td>
<td>White</td>
<td>12/100</td>
<td>White</td>
<td>42.2</td>
<td></td>
</tr>
<tr>
<td>1050 2</td>
<td>0.60</td>
<td>20</td>
<td>19 x 0.20 NPC</td>
<td>2.20</td>
<td>Light blue + blue</td>
<td>12/100</td>
<td>Blue</td>
<td>12/100</td>
<td>Blue</td>
<td>51.0</td>
<td></td>
</tr>
<tr>
<td>1050 2</td>
<td>0.93</td>
<td>18</td>
<td>19 x 0.25 NPC</td>
<td>2.40</td>
<td>White + blue</td>
<td>12/100</td>
<td>White</td>
<td>12/100</td>
<td>White</td>
<td>63.2</td>
<td></td>
</tr>
<tr>
<td>1050 2</td>
<td>1.34</td>
<td>16</td>
<td>19 x 0.30 NPC</td>
<td>2.70</td>
<td>Light blue + blue</td>
<td>12/100</td>
<td>Blue</td>
<td>12/100</td>
<td>Blue</td>
<td>75.2</td>
<td></td>
</tr>
<tr>
<td>1050 2</td>
<td>1.91</td>
<td>14</td>
<td>27 x 0.30 NPC</td>
<td>2.95</td>
<td>White + blue</td>
<td>12/100</td>
<td>White</td>
<td>12/100</td>
<td>White</td>
<td>92.6</td>
<td></td>
</tr>
<tr>
<td>1050 3</td>
<td>0.38</td>
<td>22</td>
<td>12 x 0.20 NPC</td>
<td>1.90</td>
<td>White + blue + Yellow</td>
<td>12/100</td>
<td>White</td>
<td>12/100</td>
<td>White</td>
<td>53.0</td>
<td></td>
</tr>
<tr>
<td>1050 3</td>
<td>0.60</td>
<td>20</td>
<td>19 x 0.20 NPC</td>
<td>2.20</td>
<td>Light blue + blue + Yellow</td>
<td>12/100</td>
<td>Blue</td>
<td>12/100</td>
<td>Blue</td>
<td>66.1</td>
<td></td>
</tr>
<tr>
<td>1050 3</td>
<td>0.93</td>
<td>18</td>
<td>19 x 0.25 NPC</td>
<td>2.40</td>
<td>White + blue + Yellow</td>
<td>12/100</td>
<td>White</td>
<td>12/100</td>
<td>White</td>
<td>82.7</td>
<td></td>
</tr>
<tr>
<td>1050 3</td>
<td>1.34</td>
<td>16</td>
<td>19 x 0.30 NPC</td>
<td>2.70</td>
<td>Light blue + blue + Yellow</td>
<td>12/100</td>
<td>Blue</td>
<td>12/100</td>
<td>Blue</td>
<td>98.6</td>
<td></td>
</tr>
<tr>
<td>1050 3</td>
<td>1.91</td>
<td>14</td>
<td>27 x 0.30 NPC</td>
<td>2.95</td>
<td>White + blue + Yellow</td>
<td>12/100</td>
<td>White</td>
<td>12/100</td>
<td>White</td>
<td>122.3</td>
<td></td>
</tr>
</tbody>
</table>

The currents shown are valid for single wires in air. For current ratings of bundles see Air 7822 Specification.

N.P.C. = Nickel plated copper
Type 1052

Filotex®

Screened cables for high ambient temperatures

To AIR 4524, B.N.Aé

Operating voltage: 600 volts RMS
Operating temperature: -50°C to +250°C (ambient + rise)

Characteristics:
Same as 2102 basic cores. Moreover, the overall polyimide and PTFE sheaths provide the following advantages:
- Very good electrical insulation of the screen,
- Very efficient protection of the screen against oxidation and corrosion,
- Easy fitting of the cable,
- Safer handling.

Technical requirements and control conditions:
- Cores: see data sheet on type '2102',
- Screen: MIL-C 7078 of August 1971,

CONSTRUCTION
1, 2 or 3 cores, Type 2102 covered with:
1. A braided screen made up of nickel plated copper
2. A Polyimide sheath
3. A wrapped and sintered PTFE overall sheath

PRODUCT REFERENCES
1052
2102
## MECHANICAL & ELECTRICAL VALUES

### 2100 CORES

<table>
<thead>
<tr>
<th>References</th>
<th>Gauge</th>
<th>Construction</th>
<th>Overall diameter of the core</th>
<th>Colour of cores</th>
<th>Screen strands</th>
<th>PTFE outer sheath</th>
<th>Overall diameter (max.)</th>
<th>Average weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td><strong>Nb. cores</strong></td>
<td><strong>Cross Sectional area</strong></td>
<td><strong>AWG</strong></td>
<td><strong>n x Ø mm</strong></td>
<td><strong>mm</strong></td>
<td><strong>Ø mm</strong></td>
<td><strong>Colour</strong></td>
<td><strong>mm</strong></td>
</tr>
<tr>
<td>1052 1</td>
<td>0.21</td>
<td>24</td>
<td>19 x 0.12 N.P. All.</td>
<td>1.40</td>
<td>Light blue</td>
<td>10/100</td>
<td>Blue</td>
<td>2.6</td>
</tr>
<tr>
<td>1052 1</td>
<td>0.38</td>
<td>22</td>
<td>12 x 0.20 NPC</td>
<td>1.60</td>
<td>White</td>
<td>10/100</td>
<td>White</td>
<td>2.8</td>
</tr>
<tr>
<td>1052 1</td>
<td>0.60</td>
<td>20</td>
<td>19 x 0.20 NPC</td>
<td>1.80</td>
<td>Light blue</td>
<td>10/100</td>
<td>Blue</td>
<td>2.9</td>
</tr>
<tr>
<td>1052 1</td>
<td>0.93</td>
<td>18</td>
<td>19 x 0.25 NPC</td>
<td>2.05</td>
<td>White</td>
<td>10/100</td>
<td>White</td>
<td>3.2</td>
</tr>
<tr>
<td>1052 1</td>
<td>1.34</td>
<td>16</td>
<td>19 x 0.30 NPC</td>
<td>2.30</td>
<td>Light blue</td>
<td>12/100</td>
<td>Blue</td>
<td>3.7</td>
</tr>
<tr>
<td>1052 1</td>
<td>1.91</td>
<td>14</td>
<td>27 x 0.30 NPC</td>
<td>2.70</td>
<td>White</td>
<td>12/100</td>
<td>White</td>
<td>4.0</td>
</tr>
<tr>
<td>1052 2</td>
<td>0.21</td>
<td>24</td>
<td>19 x 0.12 N.P. All.</td>
<td>1.40</td>
<td>Light blue + blue</td>
<td>12/100</td>
<td>Blue</td>
<td>4.2</td>
</tr>
<tr>
<td>1052 2</td>
<td>0.38</td>
<td>22</td>
<td>12 x 0.20 NPC</td>
<td>1.60</td>
<td>White + blue</td>
<td>12/100</td>
<td>White</td>
<td>4.7</td>
</tr>
<tr>
<td>1052 2</td>
<td>0.60</td>
<td>20</td>
<td>19 x 0.20 NPC</td>
<td>1.80</td>
<td>Light blue + blue</td>
<td>12/100</td>
<td>Blue</td>
<td>5.0</td>
</tr>
<tr>
<td>1052 2</td>
<td>0.93</td>
<td>18</td>
<td>19 x 0.25 NPC</td>
<td>2.05</td>
<td>White + blue</td>
<td>12/100</td>
<td>White</td>
<td>5.5</td>
</tr>
<tr>
<td>1052 2</td>
<td>1.34</td>
<td>16</td>
<td>19 x 0.30 NPC</td>
<td>2.30</td>
<td>Light blue + blue</td>
<td>12/100</td>
<td>Blue</td>
<td>6.3</td>
</tr>
<tr>
<td>1052 2</td>
<td>1.91</td>
<td>14</td>
<td>27 x 0.30 NPC</td>
<td>2.70</td>
<td>White + blue</td>
<td>12/100</td>
<td>White</td>
<td>7.0</td>
</tr>
<tr>
<td>1052 3</td>
<td>0.21</td>
<td>24</td>
<td>19 x 0.12 N.P. All.</td>
<td>1.40</td>
<td>Light blue + blue + Yellow</td>
<td>12/100</td>
<td>Blue</td>
<td>4.4</td>
</tr>
<tr>
<td>1052 3</td>
<td>0.38</td>
<td>22</td>
<td>12 x 0.20 NPC</td>
<td>1.60</td>
<td>White + blue + Yellow</td>
<td>12/100</td>
<td>White</td>
<td>5.1</td>
</tr>
<tr>
<td>1052 3</td>
<td>0.60</td>
<td>20</td>
<td>19 x 0.20 NPC</td>
<td>1.80</td>
<td>Light blue + blue + Yellow</td>
<td>12/100</td>
<td>Blue</td>
<td>5.3</td>
</tr>
<tr>
<td>1052 3</td>
<td>0.93</td>
<td>18</td>
<td>19 x 0.25 NPC</td>
<td>2.05</td>
<td>White + blue + Yellow</td>
<td>12/100</td>
<td>White</td>
<td>5.8</td>
</tr>
<tr>
<td>1052 3</td>
<td>1.34</td>
<td>16</td>
<td>19 x 0.30 NPC</td>
<td>2.30</td>
<td>Light blue + blue + Yellow</td>
<td>12/100</td>
<td>Blue</td>
<td>6.7</td>
</tr>
<tr>
<td>1052 3</td>
<td>1.91</td>
<td>14</td>
<td>27 x 0.30 NPC</td>
<td>2.70</td>
<td>White + blue + Yellow</td>
<td>12/100</td>
<td>White</td>
<td>7.6</td>
</tr>
</tbody>
</table>

N.P. All. = Nickel plated copper alloy  N.P.C. = Nickel plated annealed electrolytic copper
Screened cables for high ambient temperatures

To AIR 4524, B.N.Aé, MIL-W-22759B & MIL-C-7078C
Operating voltage: 600 volts RMS
Operating temperature: -90°C to +260°C (ambient + rise)

Characteristics:
Same as 2103 basic cores. Moreover, the polyimide and PTFE protective sheaths provide the following advantages:
- Very good electrical insulation of the screen,
- Very efficient protection of the screen against oxidation and corrosion,
- Easy fitting of the cable,
- Safer handling.

Technical requirements and control conditions:
- Cores: see data sheet on type ‘2103’,
- Screen: MIL-C-7078 C Specification of August 1971,

CONSTRUCTION
1, 2 or 3 cores, Type 2103 covered with:
1. A braided screen made up of nickel plated copper (62% minimum coverage)
2. A Polyimide sheath
3. A wrapped and sintered PTFE sheath

Example: 3 cores
### MECHANICAL & ELECTRICAL VALUES

<table>
<thead>
<tr>
<th>References</th>
<th>Gauge</th>
<th>Construction</th>
<th>Overall diameter of the core</th>
<th>Colour of cores</th>
<th>Screen strands</th>
<th>PTFE outer sheath</th>
<th>Overall diameter (max.)</th>
<th>Average weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1053 1</td>
<td>0.38</td>
<td>22</td>
<td>12 x 0.20 NPC</td>
<td>1.80 White</td>
<td>10/100</td>
<td>White</td>
<td>2.9</td>
<td>16.5</td>
</tr>
<tr>
<td>1053 1</td>
<td>0.60</td>
<td>20</td>
<td>19 x 0.20 NPC</td>
<td>1.95 Light blue</td>
<td>10/100</td>
<td>Blue</td>
<td>3.0</td>
<td>19.3</td>
</tr>
<tr>
<td>1053 1</td>
<td>0.93</td>
<td>18</td>
<td>19 x 0.25 NPC</td>
<td>2.10 White</td>
<td>10/100</td>
<td>Blue</td>
<td>3.2</td>
<td>24.0</td>
</tr>
<tr>
<td>1053 1</td>
<td>1.34</td>
<td>16</td>
<td>19 x 0.30 NPC</td>
<td>2.20 Light blue</td>
<td>12/100</td>
<td>Blue</td>
<td>4.1</td>
<td>32.7</td>
</tr>
<tr>
<td>1053 1</td>
<td>1.91</td>
<td>14</td>
<td>27 x 0.30 NPC</td>
<td>2.80 White</td>
<td>12/100</td>
<td>White</td>
<td>4.4</td>
<td>41.3</td>
</tr>
<tr>
<td>1053 2</td>
<td>0.38</td>
<td>22</td>
<td>12 x 0.20 NPC</td>
<td>1.80 White + blue</td>
<td>12/100</td>
<td>White</td>
<td>4.9</td>
<td>38.0</td>
</tr>
<tr>
<td>1053 2</td>
<td>0.60</td>
<td>20</td>
<td>19 x 0.20 NPC</td>
<td>1.95 Light blue + blue</td>
<td>12/100</td>
<td>Blue</td>
<td>5.2</td>
<td>44.0</td>
</tr>
<tr>
<td>1053 2</td>
<td>0.93</td>
<td>18</td>
<td>19 x 0.25 NPC</td>
<td>2.10 White + blue</td>
<td>12/100</td>
<td>White</td>
<td>5.5</td>
<td>56.0</td>
</tr>
<tr>
<td>1053 2</td>
<td>1.34</td>
<td>16</td>
<td>19 x 0.30 NPC</td>
<td>2.20 Light blue + blue</td>
<td>12/100</td>
<td>Blue</td>
<td>6.9</td>
<td>70.0</td>
</tr>
<tr>
<td>1053 2</td>
<td>1.91</td>
<td>14</td>
<td>27 x 0.30 NPC</td>
<td>2.80 White + blue</td>
<td>12/100</td>
<td>White</td>
<td>7.8</td>
<td>91.0</td>
</tr>
<tr>
<td>1053 3</td>
<td>0.38</td>
<td>22</td>
<td>12 x 0.20 NPC</td>
<td>1.80 White + blue + Yellow</td>
<td>12/100</td>
<td>White</td>
<td>5.4</td>
<td>48.0</td>
</tr>
<tr>
<td>1053 3</td>
<td>0.60</td>
<td>20</td>
<td>19 x 0.20 NPC</td>
<td>1.95 Light blue + blue + Yellow</td>
<td>12/100</td>
<td>Blue</td>
<td>5.6</td>
<td>57.0</td>
</tr>
<tr>
<td>1053 3</td>
<td>0.93</td>
<td>18</td>
<td>19 x 0.25 NPC</td>
<td>2.10 White + blue + Yellow</td>
<td>12/100</td>
<td>White</td>
<td>5.8</td>
<td>73.0</td>
</tr>
<tr>
<td>1053 3</td>
<td>1.34</td>
<td>16</td>
<td>19 x 0.30 NPC</td>
<td>2.20 Light blue + blue + Yellow</td>
<td>12/100</td>
<td>Blue</td>
<td>7.5</td>
<td>95.0</td>
</tr>
<tr>
<td>1053 3</td>
<td>1.91</td>
<td>14</td>
<td>27 x 0.30 NPC</td>
<td>2.80 White + blue + Yellow</td>
<td>12/100</td>
<td>White</td>
<td>8.4</td>
<td>121.0</td>
</tr>
</tbody>
</table>

The currents shown are valid for single wires in air. For current ratings of bundles see Air 7822 Specification.

This cable type accommodates connectors according to MIL-C-83723 Specification

N.P.C. = Nickel plated annealed electrolytic copper
Filotex® Type TMF
High Temperature Fire Resistant Wires

Filotex®

High Temperature and Fire Resistant Aero-Engines Wires

Characteristics
- Voltage Rating: 600 Volts RMS.
- Low Operating Temperature: -65°C (-85°F)
- High Operating Temperature: +260°C (+500°F)
- Operating Frequency: up to 2000 Hz
- Dimensions and weight: see table on this data sheet
- Very Good Fire Résistance: Pass BMS 13-55 and M25038 Fire Test (Aged and Unaged)
- Good resistance to aircraft fluids
- Good mechanical and electrical performances

Applications
- Heavy Duty Applications in Aero-engines and High Temperature Areas.

Specification
- MIL W 25038/1 and BMS 13-55 For Fire Tests.
- MILITARY QPL APPROVAL.

CONSTRUCTION

CONDUCTOR
- 19 Strands of Nickel Clad Copper Conductor.

INSULATION
- Special Fire Resistant Composite Insulation.
- PTFE Tape(s).
# DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>FILOTEX</th>
<th>PART NUMBER</th>
<th>US</th>
<th>AWG</th>
<th>Stranding Diameter (Nbr of Strands x Diam. of Strands in mm)</th>
<th>Conductor Diameter (mm)</th>
<th>Resistance at 20°C (68°F) (Ohms/Km)</th>
<th>Finished Wire Diameter (mm)</th>
<th>Weight (Kg/Km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMF-1-22</td>
<td>22</td>
<td></td>
<td>22</td>
<td>19 x 0.160</td>
<td>0.78</td>
<td>77.8</td>
<td>2.54</td>
<td>14.9</td>
</tr>
<tr>
<td>TMF-1-20</td>
<td>20</td>
<td></td>
<td>20</td>
<td>19 x 0.203</td>
<td>0.98</td>
<td>47.9</td>
<td>2.77</td>
<td>17.9</td>
</tr>
<tr>
<td>TMF-1-18</td>
<td>18</td>
<td></td>
<td>18</td>
<td>19 x 0.254</td>
<td>1.22</td>
<td>30.0</td>
<td>3.03</td>
<td>22.3</td>
</tr>
<tr>
<td>TMF-1-16</td>
<td>16</td>
<td></td>
<td>16</td>
<td>19 x 0.287</td>
<td>1.40</td>
<td>22.5</td>
<td>3.23</td>
<td>28.3</td>
</tr>
<tr>
<td>TMF-1-14</td>
<td>14</td>
<td></td>
<td>14</td>
<td>19 x 0.361</td>
<td>1.76</td>
<td>14.8</td>
<td>3.81</td>
<td>37.2</td>
</tr>
<tr>
<td>TMF-1-12</td>
<td>12</td>
<td></td>
<td>12</td>
<td>19 x 0.455</td>
<td>2.20</td>
<td>9.12</td>
<td>4.20</td>
<td>52.1</td>
</tr>
<tr>
<td>TMF-1-10</td>
<td>10</td>
<td></td>
<td>10</td>
<td>7 x 7 x 0.360</td>
<td>3.09</td>
<td>5.51</td>
<td>5.30</td>
<td>81.8</td>
</tr>
<tr>
<td>TMF-1-8</td>
<td>8</td>
<td></td>
<td>8</td>
<td>19 x 7 x 0.287</td>
<td>4.05</td>
<td>6.50</td>
<td>7.12</td>
<td>127</td>
</tr>
<tr>
<td>TMF-1-6</td>
<td>6</td>
<td></td>
<td>6</td>
<td>19 x 7 x 0.361</td>
<td>5.09</td>
<td>8.10</td>
<td>8.69</td>
<td>189</td>
</tr>
<tr>
<td>TMF-1-4</td>
<td>4</td>
<td></td>
<td>4</td>
<td>19 x 7 x 0.455</td>
<td>6.42</td>
<td>9.70</td>
<td>10.4</td>
<td>286</td>
</tr>
<tr>
<td>TMF-1-2</td>
<td>2</td>
<td></td>
<td>2</td>
<td>19 x 35 x 0.254</td>
<td>8.01</td>
<td>0.790</td>
<td>11.7</td>
<td>433</td>
</tr>
<tr>
<td>TMF-1-1</td>
<td>1</td>
<td></td>
<td>1</td>
<td>19 x 43 x 0.254</td>
<td>8.88</td>
<td>0.643</td>
<td>12.6</td>
<td>516</td>
</tr>
<tr>
<td>TMF-1-01</td>
<td>0</td>
<td></td>
<td>0</td>
<td>19 x 55 x 0.254</td>
<td>10.04</td>
<td>0.502</td>
<td>13.6</td>
<td>618</td>
</tr>
<tr>
<td>TMF-1-02</td>
<td>00</td>
<td></td>
<td>00</td>
<td>19 x 70 x 0.254</td>
<td>11.33</td>
<td>0.394</td>
<td>15.1</td>
<td>774</td>
</tr>
<tr>
<td>TMF-1-03</td>
<td>000</td>
<td></td>
<td>000</td>
<td>37 x 46 x 0.254</td>
<td>12.82</td>
<td>0.315</td>
<td>16.8</td>
<td>964</td>
</tr>
<tr>
<td>TMF-1-04</td>
<td>0000</td>
<td></td>
<td>000</td>
<td>37 x 57 x 0.254</td>
<td>14.27</td>
<td>0.253</td>
<td>18.5</td>
<td>1180</td>
</tr>
</tbody>
</table>
Filotex® type TMF-VRA-US
TMF-VR-US
High Temperature Fire Resistant Cables

High Temperature and Fire Resistant Aero-Engines Cables

Characteristics
- Voltage Rating: 600 Volts RMS.
- Low Operating Temperature: -65°C (-85°F)
- High Operating Temperature: +260°C (+500°F)
- Operating Frequency: Up to 2000 Hz.
- Dimensions and weight: See table on this data sheet
- Very Good Fire Resistance: According to MIL W 25038
- Good resistance to aircraft fluids
- Good mechanical and electrical performances

Applications
- Heavy Duty Applications in Aero-engines and High Temperature Areas

Specification
- MIL W 25038/3
- MILITARY QPL APPROVAL
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor</td>
<td>Stranding (Nbr of Strands x Diam. of Strands in mm)</td>
<td>O.D. (mm)</td>
<td>Resistance at 20°C (68°F) (Ohms/Km)</td>
<td>Diameter (mm)</td>
<td>Weight (Kg/Km)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMF-VRA-US-22</td>
<td>22</td>
<td>19 x 0.160</td>
<td>0.78</td>
<td>0.84</td>
<td>77.8</td>
<td>1.02</td>
<td>1.37</td>
<td>6.18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMF-VRA-US-22H</td>
<td>22</td>
<td>19 x 0.160</td>
<td>0.78</td>
<td>0.84</td>
<td>77.8</td>
<td>1.40</td>
<td>1.91</td>
<td>8.90</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMF-VRA-US-20</td>
<td>20</td>
<td>19 x 0.203</td>
<td>0.99</td>
<td>1.04</td>
<td>50.1</td>
<td>1.22</td>
<td>2.11</td>
<td>13.40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMF-VR-US-18</td>
<td>18</td>
<td>19 x 0.254</td>
<td>1.22</td>
<td>1.32</td>
<td>30.0</td>
<td>1.65</td>
<td>2.46</td>
<td>15.60</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMF-VR-US-16</td>
<td>16</td>
<td>19 x 0.287</td>
<td>1.40</td>
<td>1.55</td>
<td>22.5</td>
<td>1.73</td>
<td>2.62</td>
<td>20.10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMF-VR-US-14</td>
<td>14</td>
<td>19 x 0.361</td>
<td>1.76</td>
<td>1.88</td>
<td>14.2</td>
<td>2.46</td>
<td>3.12</td>
<td>29.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMF-VR-US-12</td>
<td>12</td>
<td>19 x 0.455</td>
<td>2.23</td>
<td>2.36</td>
<td>9.12</td>
<td>2.54</td>
<td>3.61</td>
<td>41.70</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Filotex® Type FRM-A-US**

**FRM-US**

**Filotex®**

**High Temperature Fire Resistant Cables**

**Aero Engines, Fire Zone Applications**

**Applications**
- Fire Resistant Cable

**Characteristics**
- Voltage/Frequency Rating: 600 Volts RMS/2000 Hz Max.
- Operating Temperature: -65°C/+260°C (-85°F/+500°F)
- Dimensions and Weights: See Table on Reverse Side of this Data Sheet

**CONSTRUCTION**

1. **CONDUCTOR**
   - Filotex® FRM-A-US
     - Nickel Clad High Strength Copper Alloy Conductor for AWG 22, 22H and 20
   - Filotex® FRM-US
     - Nickel Clad Copper Conductor for other AWG

2. **INSULATION**
   - Inorganic barrier
   - Polyimide Tape
   - PTFE Tape

**Specification**
- MIL W 25038/3
### DIMENSIONS AND WEIGHTS (METRIC)

<table>
<thead>
<tr>
<th>US AWG</th>
<th>Conductors</th>
<th>O.D. (mm)</th>
<th>Maximum DC Resistance (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (Kg/Km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>19/34</td>
<td>0.78</td>
<td>77.8</td>
<td>1.02</td>
<td>1.34</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Max.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22H</td>
<td>19/34</td>
<td>0.78</td>
<td>77.8</td>
<td>1.40</td>
<td>1.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>19/32</td>
<td>0.99</td>
<td>50.1</td>
<td>1.22</td>
<td>1.78</td>
</tr>
<tr>
<td>18</td>
<td>19/30</td>
<td>1.24</td>
<td>27.9</td>
<td>1.65</td>
<td>2.02</td>
</tr>
<tr>
<td>16</td>
<td>19/29</td>
<td>1.40</td>
<td>21.8</td>
<td>1.73</td>
<td>2.21</td>
</tr>
<tr>
<td>14</td>
<td>19/27</td>
<td>1.76</td>
<td>14.2</td>
<td>2.46</td>
<td>2.64</td>
</tr>
<tr>
<td>12</td>
<td>19/25</td>
<td>2.20</td>
<td>9.12</td>
<td>2.54</td>
<td>3.08</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.36</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
High Temperature Fire Resistant Shielded and Jacketed Cables

**Characteristics**
- Voltage Rating: 600 Volts RMS.
- Low Operating Temperature: -65°C (-85°F)
- High Operating Temperature: +260°C (+500°F)
- Operating Frequency: up to 2000 Hz.
- Dimensions and weight: see table on this data sheet.
- Good Fire Resistance.
- Good resistance to aircraft fluids.
- Good mechanical and electrical performances

**Applications**
- Fire Resistant Cable

**Specification**
- MIL W 25038/3
- MIL DTL 27500

**Construction**

**Cores**
1. Filotex® FRM-A-US for AWG 22 and 20
2. Filotex® FRM-US for other AWG

**Screen**
2. Nickel Clad Copper Braided Screen

**Jacket**
3-4. PTFE Tapes
### DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>US of Strands</th>
<th>O.D. (mm)</th>
<th>Resistance at 20°C (68°F) of Cores (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (Kg/Km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M27500A22 JF 1 N 06</td>
<td>22 1</td>
<td>0.10</td>
<td>1.74</td>
<td>77.8</td>
<td>2.38</td>
</tr>
<tr>
<td>M27500A20 JF 1 N 06</td>
<td>20 1</td>
<td>0.13</td>
<td>2.30</td>
<td>50.1</td>
<td>2.94</td>
</tr>
<tr>
<td>M27500A18 JF 1 N 06</td>
<td>18 1</td>
<td>0.13</td>
<td>2.54</td>
<td>28.0</td>
<td>3.18</td>
</tr>
<tr>
<td>M27500A16 JF 1 N 06</td>
<td>16 1</td>
<td>0.13</td>
<td>2.73</td>
<td>21.9</td>
<td>3.37</td>
</tr>
<tr>
<td>M27500A14 JF 1 N 06</td>
<td>14 1</td>
<td>0.13</td>
<td>3.16</td>
<td>14.2</td>
<td>3.80</td>
</tr>
<tr>
<td>M27500A12 JF 1 N 06</td>
<td>12 1</td>
<td>0.13</td>
<td>3.60</td>
<td>9.12</td>
<td>4.24</td>
</tr>
<tr>
<td>M27500A22 JF 2 N 06</td>
<td>22 2</td>
<td>0.13</td>
<td>3.20</td>
<td>79.4</td>
<td>3.84</td>
</tr>
<tr>
<td>M27500A20 JF 2 N 06</td>
<td>20 2</td>
<td>0.13</td>
<td>4.08</td>
<td>51.1</td>
<td>4.72</td>
</tr>
<tr>
<td>M27500A18 JF 2 N 06</td>
<td>18 2</td>
<td>0.13</td>
<td>4.56</td>
<td>28.6</td>
<td>5.20</td>
</tr>
<tr>
<td>M27500A16 JF 2 N 06</td>
<td>16 2</td>
<td>0.13</td>
<td>4.94</td>
<td>22.3</td>
<td>5.58</td>
</tr>
<tr>
<td>M27500A14 JF 2 N 06</td>
<td>14 2</td>
<td>0.13</td>
<td>5.80</td>
<td>14.4</td>
<td>6.44</td>
</tr>
<tr>
<td>M27500A12 JF 2 N 06</td>
<td>12 2</td>
<td>0.13</td>
<td>6.68</td>
<td>9.3</td>
<td>7.32</td>
</tr>
<tr>
<td>M27500A22 JF 3 N 06</td>
<td>22 3</td>
<td>0.13</td>
<td>3.41</td>
<td>79.4</td>
<td>4.05</td>
</tr>
<tr>
<td>M27500A20 JF 3 N 06</td>
<td>20 3</td>
<td>0.13</td>
<td>4.36</td>
<td>51.1</td>
<td>4.99</td>
</tr>
<tr>
<td>M27500A18 JF 3 N 06</td>
<td>18 3</td>
<td>0.13</td>
<td>4.87</td>
<td>28.6</td>
<td>5.51</td>
</tr>
<tr>
<td>M27500A16 JF 3 N 06</td>
<td>16 3</td>
<td>0.13</td>
<td>5.28</td>
<td>22.3</td>
<td>5.92</td>
</tr>
<tr>
<td>M27500A14 JF 3 N 06</td>
<td>14 3</td>
<td>0.13</td>
<td>6.21</td>
<td>14.4</td>
<td>6.85</td>
</tr>
<tr>
<td>M27500A12 JF 3 N 06</td>
<td>12 3</td>
<td>0.13</td>
<td>7.16</td>
<td>9.3</td>
<td>7.80</td>
</tr>
</tbody>
</table>
High Temperature Fire Resistant Shielded and Jacketed Cables

Characteristics
- Voltage Rating: 600 Volts RMS.
- Low Operating Temperature: -65°C (-85°F)
- High Operating Temperature: +200°C (+392°F)
- Operating Frequency: up to 2000 Hz.
- Dimensions and weight: see table on this data sheet.
- Good Fire Resistance.
- Good resistance to aircraft fluids.
- Good mechanical and electrical performances

Applications
- Fire Resistant Cable

Specification
- MIL W 25038/3
- MIL DTL 27500
## DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>US AWG</th>
<th>Number of Cores</th>
<th>Screen Diameters</th>
<th>Resistance at 20°C (68°F) of Cores (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (Kg/Km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M27500A22 JF 1 N 24</td>
<td>22</td>
<td>1</td>
<td>0.10</td>
<td>1.74</td>
<td>77.8</td>
<td>2.11</td>
</tr>
<tr>
<td>M27500A20 JF 1 N 24</td>
<td>20</td>
<td>1</td>
<td>0.13</td>
<td>2.30</td>
<td>50.1</td>
<td>2.67</td>
</tr>
<tr>
<td>M27500A18 JF 1 N 24</td>
<td>18</td>
<td>1</td>
<td>0.13</td>
<td>2.54</td>
<td>28.0</td>
<td>2.91</td>
</tr>
<tr>
<td>M27500A16 JF 1 N 24</td>
<td>16</td>
<td>1</td>
<td>0.13</td>
<td>2.73</td>
<td>21.9</td>
<td>3.10</td>
</tr>
<tr>
<td>M27500A14 JF 1 N 24</td>
<td>14</td>
<td>1</td>
<td>0.13</td>
<td>3.16</td>
<td>14.2</td>
<td>3.53</td>
</tr>
<tr>
<td>M27500A12 JF 1 N 24</td>
<td>12</td>
<td>1</td>
<td>0.13</td>
<td>3.60</td>
<td>9.12</td>
<td>3.97</td>
</tr>
<tr>
<td>M27500A22 JF 2 N 24</td>
<td>22</td>
<td>2</td>
<td>0.13</td>
<td>3.20</td>
<td>79.4</td>
<td>3.57</td>
</tr>
<tr>
<td>M27500A20 JF 2 N 24</td>
<td>20</td>
<td>2</td>
<td>0.13</td>
<td>4.08</td>
<td>51.1</td>
<td>4.45</td>
</tr>
<tr>
<td>M27500A18 JF 2 N 24</td>
<td>18</td>
<td>2</td>
<td>0.13</td>
<td>4.56</td>
<td>28.6</td>
<td>4.93</td>
</tr>
<tr>
<td>M27500A16 JF 2 N 24</td>
<td>16</td>
<td>2</td>
<td>0.13</td>
<td>4.94</td>
<td>22.3</td>
<td>5.31</td>
</tr>
<tr>
<td>M27500A14 JF 2 N 24</td>
<td>14</td>
<td>2</td>
<td>0.13</td>
<td>5.80</td>
<td>14.4</td>
<td>6.17</td>
</tr>
<tr>
<td>M27500A12 JF 2 N 24</td>
<td>12</td>
<td>2</td>
<td>0.13</td>
<td>6.68</td>
<td>9.3</td>
<td>7.05</td>
</tr>
<tr>
<td>M27500A22 JF 3 N 24</td>
<td>22</td>
<td>3</td>
<td>0.13</td>
<td>3.41</td>
<td>79.4</td>
<td>3.78</td>
</tr>
<tr>
<td>M27500A20 JF 3 N 24</td>
<td>20</td>
<td>3</td>
<td>0.13</td>
<td>4.36</td>
<td>51.1</td>
<td>4.73</td>
</tr>
<tr>
<td>M27500A18 JF 3 N 24</td>
<td>18</td>
<td>3</td>
<td>0.13</td>
<td>4.87</td>
<td>28.6</td>
<td>5.25</td>
</tr>
<tr>
<td>M27500A16 JF 3 N 24</td>
<td>16</td>
<td>3</td>
<td>0.13</td>
<td>5.28</td>
<td>22.3</td>
<td>5.65</td>
</tr>
<tr>
<td>M27500A14 JF 3 N 24</td>
<td>14</td>
<td>3</td>
<td>0.13</td>
<td>6.21</td>
<td>14.4</td>
<td>6.58</td>
</tr>
<tr>
<td>M27500A12 JF 3 N 24</td>
<td>12</td>
<td>3</td>
<td>0.13</td>
<td>7.16</td>
<td>9.3</td>
<td>7.53</td>
</tr>
</tbody>
</table>
BMS 13-55 Type 2 Class 1

Filotex®

High Temperature and Fire Resistant Aero-Engines Wires

**Characteristics**
- Voltage rating: 600 Volts RMS,
- Low operating temperature: -65 °C (-85 °F),
- High operating temperature: +260 °C (+500 °F),
- Operating frequency: up to 2000 Hz,
- Dimensions and weight: see table on reverse of this datasheet,
- Very good fire resistance: BMS 13-55 fire test (aged and unaged),
- Very good mechanical and electrical performances,
- Good resistance to aircraft fluids.

**CONSTRUCTION**

**CONDUCTOR**

**INSULATION**
2. Impregnated inorganic fiber.
3. TFE coated glass braid.
4. PTFE tapes (fused)

**Identification**
- Colors: White with Red Stripe.
- Marking: * W55/2/1-** F0241
  * = specification revision letter
  ** = AWG

**Application**
- Heavy-duty applications in Aero-engines and High Temperature Areas.

**Specification**
- BMS 13-55.
**DIMENSIONS AND WEIGHTS** (Metric Units)

<table>
<thead>
<tr>
<th>FIOTEX® PART NUMBER</th>
<th>US AWG</th>
<th>Conduct Stranding (Nbr of Strands X Diam. of Strands in mm.)</th>
<th>Nominal Diameter (mm)</th>
<th>Nominal Aera (mm²)</th>
<th>Nominal Resistance at 20°C (68°F) (Ohms/Km.)</th>
<th>Finished Wire Diameter (mm)</th>
<th>Weight (Kg/Km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 13-55 T2 C1 G22</td>
<td>22</td>
<td>19 x 0.16</td>
<td>0.79</td>
<td>0.84</td>
<td>0.38</td>
<td>80.81</td>
<td>2.08</td>
</tr>
<tr>
<td>BMS 13-55 T2 C1 G20</td>
<td>20</td>
<td>19 x 0.20</td>
<td>0.99</td>
<td>1.04</td>
<td>0.62</td>
<td>50.10</td>
<td>2.24</td>
</tr>
<tr>
<td>BMS 13-55 T2 C1 G18</td>
<td>18</td>
<td>19 x 0.25</td>
<td>1.24</td>
<td>1.32</td>
<td>0.96</td>
<td>32.05</td>
<td>2.44</td>
</tr>
<tr>
<td>BMS 13-55 T2 C1 G16</td>
<td>16</td>
<td>19 x 0.287</td>
<td>1.40</td>
<td>1.55</td>
<td>1.23</td>
<td>25.13</td>
<td>2.62</td>
</tr>
<tr>
<td>BMS 13-55 T2 C1 G14</td>
<td>14</td>
<td>19 x 0.36</td>
<td>1.78</td>
<td>1.88</td>
<td>1.94</td>
<td>16.31</td>
<td>2.97</td>
</tr>
<tr>
<td>BMS 13-55 T2 C1 G12</td>
<td>12</td>
<td>19 x 0.45</td>
<td>2.24</td>
<td>2.36</td>
<td>3.09</td>
<td>10.50</td>
<td>3.78</td>
</tr>
<tr>
<td>BMS 13-55 T2 C1 G10</td>
<td>10</td>
<td>7 x 7 x 0.36</td>
<td>3.10</td>
<td>3.25</td>
<td>5.02</td>
<td>6.33</td>
<td>4.65</td>
</tr>
</tbody>
</table>
Filotex® Type ASNE0437

High Temperature Fire Resistant Cables

Applications
- Heavy Duty Applications in Aero-engines and High Temperature Areas

Main data
- Voltage rating: 600 Volts RMS.
- Operating temperature: -55°C to +260°C (Ambiant + Rise)
- Operating frequency: Up to 2000 Hz.
- Dimensions and weights: See table on this data sheet.
- Very Good Fire Resistance: According to MIL W 25038
- Good resistance to aircraft fluids.
- Good mechanical and electrical performances.

Identification
- Wire Standard Colour: White with red stripe
- Marking:
  - Colour: Green
  - Wording: ■ DL++ FRF** ■ DL++
  - ++ = AWG Wire Size
  - FR = Country of origin (FR=France)
  - F = Manufacturer (F= Filotex®)
  - ** = Year of manufacturing (ie. 03=2003)

Specifications
- ASNE0437

ASNE0437 DL
### DIMENSIONS AND WEIGHTS (Metric Units)

<table>
<thead>
<tr>
<th>PART NUMBERS</th>
<th>US AWG</th>
<th>Conductor</th>
<th>Finished Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Diameter</td>
<td>Diameter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nom. (mm)</td>
<td>Maxi. (mm)</td>
</tr>
<tr>
<td>ASNE0437 DL 22</td>
<td>22</td>
<td>19 x 0.160</td>
<td>0.78</td>
</tr>
<tr>
<td>ASNE0437 DL 20</td>
<td>20</td>
<td>19 x 0.204</td>
<td>0.98</td>
</tr>
<tr>
<td>ASNE0437 DL 18</td>
<td>18</td>
<td>19 x 0.254</td>
<td>1.22</td>
</tr>
<tr>
<td>ASNE0437 DL 16</td>
<td>16</td>
<td>19 x 0.287</td>
<td>1.40</td>
</tr>
</tbody>
</table>
Fireproof Cable
Single and Multicore assembly light weight

Applications
- Use in the on-board electrical systems of aircraft.

Electrical Characteristics
- Temperature rating: -65°C / +260°C (Ambiant. + Rise.)
- Voltage rating: 600 Volts rms
- Operating frequency: up to 2000 Hz.
- Dimensions and weights: see table on this data sheet.
- Fire resistance: > 50 kΩ.
- Very good resistance to Aircraft Fluids.

Identification
- Core identification
  - Colour: One core: White with a helical red stripe
    Two cores: White with a helical red / blue stripe
    Three cores: White with a helical red / blue / yellow stripe
- Marking
  - Wording: EN DW ++ FRF** for single core
    EN DW A ++ FRF** for multicore core
  - With: DW = Short designation
    ++ = AWG Wire Size
    FR = Country of Origin (FR = France)
    F = Manufacturer (F = Filotex®)
    ** = Year of Manufacturing (ie. 03 = 2003)

Specification: EN2346-005
## DIMENSIONS and WEIGHTS

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>No of core</th>
<th>Size Code (AECMA)</th>
<th>Gauge (AWG)</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max.</td>
<td>Min.</td>
<td>Max.</td>
<td>Max.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 2346-005A 002</td>
<td>1</td>
<td>002</td>
<td>24</td>
<td>131.0</td>
<td>1.20</td>
<td>1.65</td>
</tr>
<tr>
<td>EN 2346-005A 004</td>
<td>1</td>
<td>004</td>
<td>22</td>
<td>80.9</td>
<td>1.55</td>
<td>1.80</td>
</tr>
<tr>
<td>EN 2346-005A 006</td>
<td>1</td>
<td>006</td>
<td>20</td>
<td>44.3</td>
<td>1.80</td>
<td>1.97</td>
</tr>
<tr>
<td>EN 2346-005A 010</td>
<td>1</td>
<td>010</td>
<td>18</td>
<td>27.9</td>
<td>2.04</td>
<td>2.23</td>
</tr>
<tr>
<td>EN 2346-005A 012</td>
<td>1</td>
<td>012</td>
<td>16</td>
<td>18.8</td>
<td>2.28</td>
<td>2.50</td>
</tr>
<tr>
<td>EN 2346-005A 020</td>
<td>1</td>
<td>020</td>
<td>14</td>
<td>13.9</td>
<td>2.53</td>
<td>2.75</td>
</tr>
<tr>
<td>EN 2346-005B 004</td>
<td>2</td>
<td>004</td>
<td>22</td>
<td>82.5</td>
<td>-</td>
<td>3.60</td>
</tr>
<tr>
<td>EN 2346-005B 006</td>
<td>2</td>
<td>006</td>
<td>20</td>
<td>45.2</td>
<td>-</td>
<td>3.94</td>
</tr>
<tr>
<td>EN 2346-005B 010</td>
<td>2</td>
<td>010</td>
<td>18</td>
<td>28.5</td>
<td>-</td>
<td>4.46</td>
</tr>
<tr>
<td>EN 2346-005B 012</td>
<td>2</td>
<td>012</td>
<td>16</td>
<td>19.2</td>
<td>-</td>
<td>5.00</td>
</tr>
<tr>
<td>EN 2346-005B 020</td>
<td>2</td>
<td>020</td>
<td>14</td>
<td>14.2</td>
<td>-</td>
<td>5.80</td>
</tr>
<tr>
<td>EN 2346-005C 004</td>
<td>3</td>
<td>004</td>
<td>22</td>
<td>82.5</td>
<td>-</td>
<td>3.87</td>
</tr>
<tr>
<td>EN 2346-005C 006</td>
<td>3</td>
<td>006</td>
<td>20</td>
<td>45.2</td>
<td>-</td>
<td>4.23</td>
</tr>
<tr>
<td>EN 2346-005C 010</td>
<td>3</td>
<td>010</td>
<td>18</td>
<td>28.5</td>
<td>-</td>
<td>4.79</td>
</tr>
<tr>
<td>EN 2346-005C 012</td>
<td>3</td>
<td>012</td>
<td>16</td>
<td>19.2</td>
<td>-</td>
<td>5.37</td>
</tr>
<tr>
<td>EN 2346-005C 020</td>
<td>3</td>
<td>020</td>
<td>14</td>
<td>14.2</td>
<td>-</td>
<td>5.91</td>
</tr>
</tbody>
</table>
Filotex®

Fireproof Cable
Single and Multi-cores Screened and Jacketed

Applications
- Use in the onboard electrical systems of aircraft.

Electrical Characteristics
- Temperature rating: -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating: 600 Volts rms
- Operating frequency: up to 2000 Hz.
- Dimensions and weights: see table on this data sheet.
- Fire resistance: > 50 kΩ.
- Very good resistance to Aircraft Fluids.

Identification
- Core identification
- Colours: Single core: White with a helical red stripe
  Two cores: White with a helical red / blue stripe
  Three cores: White with a helical red / blue / yellow stripe

CONSTRUCTION

CORE
Conductor
1. Stranded conductor:
   Nickel clad copper alloy
   for AWG 22.
   Nickel clad copper for other
   AWG.

Insulation
2. Fireproof insulation
3. Polyimide Tape
4. PTFE Tape

SCREEN
5. Nickel plated copper braid

JACKET
6. UV PTFE Tape(s)

PRODUCT REFERENCES
EN 4608-004A xxx
EN 4608-004B xxx
EN 4608-004C xxx
EN 2346-005

Specification: EN 4608-004
### DIMENSIONS and WEIGHTS

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>AWG</th>
<th>Nbr of cores</th>
<th>Nom. Diameter of shield strands (mm)</th>
<th>DC Resistance at 20°C (Ohms/Km) Max.</th>
<th>Diameter (mm) Max.</th>
<th>Weight (g/m) Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 4608-004A 004</td>
<td>004</td>
<td>22</td>
<td>1</td>
<td>0.10</td>
<td>80.9</td>
<td>2.75</td>
<td>15.96</td>
</tr>
<tr>
<td>EN 4608-004A 006</td>
<td>006</td>
<td>20</td>
<td>1</td>
<td>0.10</td>
<td>44.3</td>
<td>2.93</td>
<td>19.50</td>
</tr>
<tr>
<td>EN 4608-004A 010</td>
<td>010</td>
<td>18</td>
<td>1</td>
<td>0.12</td>
<td>27.9</td>
<td>3.26</td>
<td>25.95</td>
</tr>
<tr>
<td>EN 4608-004A 012</td>
<td>012</td>
<td>16</td>
<td>1</td>
<td>0.12</td>
<td>18.8</td>
<td>3.50</td>
<td>31.67</td>
</tr>
<tr>
<td>EN 4608-004A 020</td>
<td>020</td>
<td>14</td>
<td>1</td>
<td>0.12</td>
<td>13.9</td>
<td>3.75</td>
<td>37.59</td>
</tr>
<tr>
<td>EN 4608-004B 004</td>
<td>004</td>
<td>22</td>
<td>2</td>
<td>0.12</td>
<td>45.2</td>
<td>4.40</td>
<td>29.47</td>
</tr>
<tr>
<td>EN 4608-004B 006</td>
<td>006</td>
<td>20</td>
<td>2</td>
<td>0.12</td>
<td>28.5</td>
<td>5.30</td>
<td>46.20</td>
</tr>
<tr>
<td>EN 4608-004B 010</td>
<td>010</td>
<td>18</td>
<td>2</td>
<td>0.12</td>
<td>19.2</td>
<td>5.80</td>
<td>56.80</td>
</tr>
<tr>
<td>EN 4608-004B 012</td>
<td>012</td>
<td>16</td>
<td>2</td>
<td>0.12</td>
<td>14.2</td>
<td>6.30</td>
<td>69.00</td>
</tr>
<tr>
<td>EN 4608-004C 004</td>
<td>004</td>
<td>22</td>
<td>3</td>
<td>0.12</td>
<td>82.5</td>
<td>4.70</td>
<td>38.65</td>
</tr>
<tr>
<td>EN 4608-004C 006</td>
<td>006</td>
<td>20</td>
<td>3</td>
<td>0.12</td>
<td>45.2</td>
<td>5.10</td>
<td>48.80</td>
</tr>
<tr>
<td>EN 4608-004C 010</td>
<td>010</td>
<td>18</td>
<td>3</td>
<td>0.12</td>
<td>28.5</td>
<td>5.60</td>
<td>62.70</td>
</tr>
<tr>
<td>EN 4608-004C 012</td>
<td>012</td>
<td>16</td>
<td>3</td>
<td>0.12</td>
<td>19.2</td>
<td>6.20</td>
<td>78.00</td>
</tr>
<tr>
<td>EN 4608-004C 020</td>
<td>020</td>
<td>14</td>
<td>3</td>
<td>0.15</td>
<td>14.2</td>
<td>6.80</td>
<td>100.70</td>
</tr>
</tbody>
</table>
Filter Effect Cable
High Temperature Wire

Applications
- Aero engine services.

Electrical Characteristics
- Temperature rating : -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating : 200 Volts rms
- Dimensions and weights : see table on this data sheet.
- Attenuation at 20°C and 260°C :
  Passband : 10 MHz          0.3 dB/m (Max.)
  Stopband : 18 GHz          100 dB/m (Min.)
- Very good resistance to Aircraft Fluids.

Identification
- Colour of wire : Dark Blue
- Marking
  Colour : White
  Wording : ESW1100-010-xxx-FX-FF-**
  xxx = Size Code
  **    = Year of manufacturing.

Specification : ESW 1100-010-XXX

CONSTRUCTION
CONDUCTOR
- Stranded conductor :
  Nickel plated high strength copper alloy
  004 : 19 x 0.15 mm
  006 : 19 x 0.20 mm

INSULATION
- Polyimide Tape
- Filter Layer
- PTFE Tape

PRODUCT REFERENCES
- ESW 1100-010-xxx
  ESW 1101
  ESW 1102
### DIMENSIONS and WEIGHTS

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>Construction (n x mm)</th>
<th>Conductor</th>
<th>Finished Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Diameter (mm)</td>
<td>DC Resistance at 20°C (Ohms/Km)</td>
</tr>
<tr>
<td>ESW1100-010-004</td>
<td>004</td>
<td>19 x 0.15</td>
<td>0.72</td>
<td>0.80</td>
</tr>
<tr>
<td>ESW1100-010-006</td>
<td>006</td>
<td>19 x 0.20</td>
<td>0.94</td>
<td>1.04</td>
</tr>
</tbody>
</table>
Filter Effect Cable
Unscreened and Unjacketed multicores

Applications
- Aero engine services.

Electrical Characteristics
- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 200 Volts rms
- Dimensions and weights : see table on this data sheet.
- Attenuation at 20°C and 260°C :
  - Passband : 10 MHz          0.3 dB/m (Max.)
  - Stopband : 18 GHz          100 dB/m  (Min.)
- Very good resistance to Aircraft Fluids.

Identification
- Core identification Colours : Dark Blue
- Marking
  Wording : ESW1100-010-xxx-FX-FF-**
  xxx = Size Code    ** = Year of manufacturing

Specification : ESW 1101-+++-XXX
## DIMENSIONS and WEIGHTS

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>Nbr of cores</th>
<th>Colours of cores</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Max.</td>
<td>Min.</td>
<td>Max.</td>
</tr>
<tr>
<td>ESW1101-021-004</td>
<td>004</td>
<td>2</td>
<td>Dark Blue</td>
<td>61.5</td>
<td>2.0</td>
<td>3.0</td>
</tr>
<tr>
<td>ESW1101-021-006</td>
<td>006</td>
<td>2</td>
<td>Blue</td>
<td>36.3</td>
<td>2.6</td>
<td>3.6</td>
</tr>
<tr>
<td>ESW1101-031-004</td>
<td>004</td>
<td>3</td>
<td>Dark Blue</td>
<td>61.5</td>
<td>2.2</td>
<td>3.3</td>
</tr>
<tr>
<td>ESW1101-031-006</td>
<td>006</td>
<td>3</td>
<td>Blue</td>
<td>36.3</td>
<td>2.8</td>
<td>3.9</td>
</tr>
<tr>
<td>ESW1101-041-004</td>
<td>004</td>
<td>4</td>
<td>Dark Blue</td>
<td>61.5</td>
<td>2.72</td>
<td>4.10</td>
</tr>
<tr>
<td>ESW1101-041-006</td>
<td>006</td>
<td>4</td>
<td>Blue</td>
<td>36.3</td>
<td>3.27</td>
<td>4.72</td>
</tr>
</tbody>
</table>
ESW 1102-+++-XXX

Filotex®

Filter Effect Cable
Single and Multi-cores Screened and Jacketed

Applications
- Aero engine services.

Electrical Characteristics
- Temperature rating: -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating: 200 Volts rms
- Dimensions and weights: see table on this data sheet.
- Attenuation at 20°C and 260°C:
  - Passband: 10 MHz 0.3 dB/m (Max.)
  - Stopband: 18 GHz 100 dB/m (Min.)
- Very good resistance to Aircraft Fluids.

Identification
- Core identification Colours:
  - Single core: White
  - Two cores: Red – Blue
  - Three cores: Red – Blue – Yellow
  - Four cores: Red – Blue – Yellow – Green
- Jacket identification colour: Dark Blue
- Marking:
  - Wording: ESW1102-+++-xxx-FX-FF-**
  - +++ = Form Code
  - xxx = Size Code
  - ** = Year of manufacturing

Specification: ESW1102-+++-XXX

PRODUCT REFERENCES
- ESW 1102-012-xxx
- ESW 1102-022-xxx
- ESW 1102-032-xxx
- ESW 1102-042-xxx
- ESW 1100
- ESW 1101

CONSTRUCTION
CORE
Conductor
1) Stranded conductor:
   - Nickel plated high strength copper alloy
   - 004: 19 x 0.15 mm
   - 006: 19 x 0.20 mm

Insulation
2) Polyimide Tape
3) Filter Layer
4) PTFE Tape

SCREEN
5) Nickel plated copper braid

JACKET
6) Polyimide Tape
7) PTFE Tape
## DIMENSIONS and WEIGHTS

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>Nbr of cores</th>
<th>Colours of cores</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESW1102-012-004</td>
<td>004</td>
<td>1</td>
<td>White</td>
<td>59.7</td>
<td>2.0</td>
<td>2.80</td>
</tr>
<tr>
<td>ESW1102-012-006</td>
<td>006</td>
<td>1</td>
<td></td>
<td>35.2</td>
<td>2.4</td>
<td>3.35</td>
</tr>
<tr>
<td>ESW1102-022-004</td>
<td>004</td>
<td>2</td>
<td>1 Red</td>
<td>61.5</td>
<td>2.85</td>
<td>3.8</td>
</tr>
<tr>
<td>ESW1102-022-006</td>
<td>006</td>
<td>2</td>
<td>1 Blue</td>
<td>36.3</td>
<td>3.35</td>
<td>4.3</td>
</tr>
<tr>
<td>ESW1102-032-004</td>
<td>004</td>
<td>3</td>
<td>1 Red</td>
<td>61.5</td>
<td>3.16</td>
<td>4.1</td>
</tr>
<tr>
<td>ESW1102-032-006</td>
<td>006</td>
<td>3</td>
<td>1 Blue, 1 Yellow</td>
<td>36.3</td>
<td>3.70</td>
<td>4.5</td>
</tr>
<tr>
<td>ESW1102-042-004</td>
<td>004</td>
<td>4</td>
<td>1 Red, 1 Blue</td>
<td>61.5</td>
<td>4.06</td>
<td>5.74</td>
</tr>
<tr>
<td>ESW1102-042-006</td>
<td>006</td>
<td>4</td>
<td>1 Yellow, 1 Green</td>
<td>36.3</td>
<td>4.89</td>
<td>6.37</td>
</tr>
</tbody>
</table>
Thermocouple, Nickel Chromium Filter Effect Cable High Temperature Wire

Applications
- Aero engine services.

Electrical Characteristics
- Temperature rating: -65°C/+260°C (Ambiant. + Rise.)
- Voltage Rating: 200 Volts rms
- Ni-Cr single core for ESW 1702 thermocouple cable.
- Dimensions and weights: see table on this data sheet.
- Attenuation at 20°C and 260°C:
  - Passband: 10 MHz 0.3 dB/m (Max.)
  - Stopband: 18 GHz 100 dB/m (Min.)
- Very good resistance to Aircraft Fluids.

Identification
- Colour of wire: White
- Marking
  - Colour: Green
  - Wording: ESW1700-010-xxx-FX-FF-**
    - xxx = Size Code
    - ** = Year of manufacturing.

Specification: ESW 1700-010-XXX

**PRODUCT REFERENCES**
- ESW 1700-010-xxx
  - ESW 1701-010
  - ESW 1702-022

**CONSTRUCTION**

**CONDUCTOR**
- Stranded conductor:
  - Nickel – chromium alloy
  - 004: 19 x 0.15 mm
  - 006: 19 x 0.20 mm

**INSULATION**
- Polyimide Tape
- Filter Layer
- PTFE Tape

**PASS**

1 2 3 4
## DIMENSIONS and WEIGHTS

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>Construction</th>
<th>Diameter (mm)</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Finished Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(n x mm)</td>
<td>Min.</td>
<td>Max.</td>
<td>Min.</td>
</tr>
<tr>
<td>ESW1700-010-004</td>
<td>004</td>
<td>19 x 0.15</td>
<td>0.72</td>
<td>0.80</td>
<td>1956</td>
</tr>
<tr>
<td>ESW1700-010-006</td>
<td>006</td>
<td>19 x 0.20</td>
<td>0.94</td>
<td>1.04</td>
<td>1100</td>
</tr>
</tbody>
</table>
Thermocouple, Nickel Aluminium
Filter Effect Cable
High Temperature Wire

Applications
- Aero engine services.

Electrical Characteristics
- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 200 Volts rms
- Ni-Al single core for ESW 1702 thermocouple cable.
- Dimensions and weights : see table on this data sheet.
- Attenuation at 20°C and 260°C :
  - Passband : 10 MHz          0.3 dB/m (Max.)
  - Stopband : 18 GHz          100 dB/m (Min.)
- Very good resistance to Aircraft Fluids.

Identification
- Colour of wire : Green
- Marking
  - Colour : White
  - Wording : ESW1701-010-xxx-FX-FF-**
    - xxx = Size Code
    - ** = Year of manufacturing.

Specification : ESW 1701-010-XXX

FILOTEX® ESW 1701-010-xxx
## DIMENSIONS and WEIGHTS

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>Construction (n x mm)</th>
<th>Diameter (mm)</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESW1701-010-004</td>
<td>004</td>
<td>19 x 0.15</td>
<td>0.72 Min., 0.80 Max.</td>
<td>771 Min., 932 Max.</td>
<td>1.0 Min., 1.5 Max.</td>
<td>6.00</td>
</tr>
<tr>
<td>ESW1701-010-006</td>
<td>006</td>
<td>19 x 0.20</td>
<td>0.94 Min., 1.04 Max.</td>
<td>434 Min., 524 Max.</td>
<td>1.3 Min., 1.8 Max.</td>
<td>8.50</td>
</tr>
</tbody>
</table>
Ni-Cr/Ni-Al Thermocouple extension
Filter Effect Cable
Twin core Screened and Jacketed

Applications
- Aero engine services.

Electrical Characteristics
- Temperature rating: -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating: 200 Volts rms
- Ni-Cr/Ni-Al Thermocouple extension cable
- Dimensions and weights: see table on this data sheet.
- Attenuation at 20°C and 260°C:
  - Passband: 10 MHz          0.3 dB/m (Max.)
  - Stopband: 18 GHz          100 dB/m  (Min.)
- Very good resistance to Aircraft Fluids.

Identification
- Core identification Colors: White – Green
  - Jacket identification Color: Green
- Marking
  - Colour: White
  - Wording: ESW1702-022-xxx-FX-FF-**
    - xxx = Size Code
    - ** = Year of manufacturing

Specification: ESW1702-022-XXX
## DIMENSIONS and WEIGHTS

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>Nbr of cores</th>
<th>Colours of cores</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESW1702-022-004</td>
<td>004</td>
<td>2</td>
<td>1 White</td>
<td>2.85</td>
<td>3.8</td>
</tr>
<tr>
<td>ESW1702-022-006</td>
<td>006</td>
<td>2</td>
<td>1 Green</td>
<td>3.35</td>
<td>4.3</td>
</tr>
</tbody>
</table>
ESW 1200-010-XXX
ESW 1201-010-XXX

Filotex®

Fire Resistant Cable
Single core

Applications
- Aero engine services.

Electrical Characteristics
- Temperature rating: -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating: 600 Volts rms
- Dimensions and weights: see table on this data sheet.
- Very good fire resistance.
- Very good resistance to Aircraft Fluids.

Identification
- Core identification:
  - Colour: White with a helical red stripe
  - Marking and Wording:
    - ESW1200-010-xxx-FX-FF-** or ESW1201-010-xxx-FX-FF-**
  - With:
    - xxx = Size Code
    - ** = Year of manufacturing

Specification: ESW1200 / 1201-010-XXX
### DIMENSIONS and WEIGHTS

#### ESW 1200

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size</th>
<th>Gauge Code (AWG)</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Max.</td>
<td>Min.</td>
<td>Max.</td>
<td>Max.</td>
</tr>
<tr>
<td>ESW1200-010-004</td>
<td>004</td>
<td>22</td>
<td>95</td>
<td>1.45</td>
<td>1.85</td>
<td>8.4</td>
</tr>
<tr>
<td>ESW1200-010-006</td>
<td>006</td>
<td>20</td>
<td>51.1</td>
<td>1.60</td>
<td>2.00</td>
<td>10.5</td>
</tr>
<tr>
<td>ESW1200-010-010</td>
<td>010</td>
<td>18</td>
<td>32.7</td>
<td>1.90</td>
<td>2.32</td>
<td>14.4</td>
</tr>
<tr>
<td>ESW1200-010-012</td>
<td>012</td>
<td>16</td>
<td>25.6</td>
<td>2.10</td>
<td>2.57</td>
<td>18.7</td>
</tr>
</tbody>
</table>

#### ESW 1201

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size</th>
<th>Gauge Code (AWG)</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Max.</td>
<td>Min.</td>
<td>Max.</td>
<td>Max.</td>
</tr>
<tr>
<td>ESW1201-010-004</td>
<td>004</td>
<td>22</td>
<td>87.9</td>
<td>1.45</td>
<td>1.85</td>
<td>8.4</td>
</tr>
<tr>
<td>ESW1201-010-006</td>
<td>006</td>
<td>20</td>
<td>43.6</td>
<td>1.60</td>
<td>2.00</td>
<td>10.5</td>
</tr>
<tr>
<td>ESW1201-010-010</td>
<td>010</td>
<td>18</td>
<td>27.9</td>
<td>1.90</td>
<td>2.32</td>
<td>14.4</td>
</tr>
<tr>
<td>ESW1201-010-012</td>
<td>012</td>
<td>16</td>
<td>21.9</td>
<td>2.10</td>
<td>2.57</td>
<td>18.7</td>
</tr>
</tbody>
</table>
**ESW 1202-+++-XXX**  
**ESW 1203-+++-XXX**

**Filotex®**

**Fire Resistant Cable**  
**Single and Multi-cores Screened and Jacketed**

**Applications**

- Aero engine services.

**Electrical Characteristics**

- Temperature rating: -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating: 600 Volts rms
- Dimensions and weights: see table on this data sheet.
- Very good fire resistance.
- Very good resistance to Aircraft Fluids.

**Identification**

- Core identification Colours: Single core: White  
  Two cores: Red – Blue  
  Three cores: Red – Blue – Yellow  
  Four cores: Red – Blue – Yellow – Green  
  Jacket identification colour: White with narrow red stripe
- Marking  
  Wording: ESW1202-+++-xxx-FX-FF-** or  
  ESW1203-+++-xxx-FX-FF-**
  +++ = Form Code  
  xxx = Size Code  
  ** = Year of manufacturing

**Specification: ESW1202 / ESW1203-+++-XXX**

**PRODUCT REFERENCES**

| ESW 1202 / ESW 1203 |  
|--------------------|---|
| -012-xxx           |  
| -022-xxx           |  
| -032-xxx           |  
| -042-xxx           |  

| ESW 1200 | ESW 1201 |

**CONSTRUCTION**

**CORE**

Conductor

1. Stranded conductor:
   - Nickel clad copper alloy (ESW1202)
   - Nickel clad copper (ESW1203)
     - 004: 19 x 0.15 mm
     - 006: 19 x 0.20 mm
     - 010: 19 x 0.25 mm
     - 012: 19 x 0.30 mm

Insulation

2. Fire resistant insulation

3. Polyimide Tape

4. PTFE Tape

SCREEN

5. Nickel plated copper braid

JACKET

6. PTFE Tape(s)

**APPLICATIONS**

- Aero engine services.

**Electrical Characteristics**

- Temperature rating: -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating: 600 Volts rms
- Dimensions and weights: see table on this data sheet.
- Very good fire resistance.
- Very good resistance to Aircraft Fluids.

**Identification**

- Core identification Colours: Single core: White  
  Two cores: Red – Blue  
  Three cores: Red – Blue – Yellow  
  Four cores: Red – Blue – Yellow – Green  
  Jacket identification colour: White with narrow red stripe
- Marking  
  Wording: ESW1202-+++-xxx-FX-FF-** or  
  ESW1203-+++-xxx-FX-FF-**
  +++ = Form Code  
  xxx = Size Code  
  ** = Year of manufacturing

**Specification: ESW1202 / ESW1203-+++-XXX**
### DIMENSIONS and WEIGHTS

#### ESW 1202

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>Nbr of cores</th>
<th>Colours of cores</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESW1202-012-004</td>
<td>004</td>
<td>1</td>
<td>White</td>
<td>95.0</td>
<td>2.40</td>
<td>3.25</td>
</tr>
<tr>
<td>ESW1202-012-006</td>
<td>006</td>
<td>1</td>
<td>White</td>
<td>51.1</td>
<td>2.65</td>
<td>3.35</td>
</tr>
<tr>
<td>ESW1202-012-010</td>
<td>010</td>
<td>1</td>
<td>White</td>
<td>32.7</td>
<td>2.90</td>
<td>3.60</td>
</tr>
<tr>
<td>ESW1202-012-012</td>
<td>012</td>
<td>1</td>
<td>White</td>
<td>25.6</td>
<td>3.15</td>
<td>3.90</td>
</tr>
<tr>
<td>ESW1202-022-004</td>
<td>004</td>
<td>2</td>
<td>1 Red 1 Blue</td>
<td>96.9</td>
<td>3.89</td>
<td>5.35</td>
</tr>
<tr>
<td>ESW1202-022-006</td>
<td>006</td>
<td>2</td>
<td>1 Red 1 Blue</td>
<td>52.1</td>
<td>4.21</td>
<td>5.64</td>
</tr>
<tr>
<td>ESW1202-032-004</td>
<td>004</td>
<td>3</td>
<td>1 Red 1 Blue 1 Yellow</td>
<td>96.9</td>
<td>4.10</td>
<td>5.65</td>
</tr>
<tr>
<td>ESW1203-012-004</td>
<td>004</td>
<td>1</td>
<td>White</td>
<td>87.9</td>
<td>2.40</td>
<td>3.25</td>
</tr>
<tr>
<td>ESW1203-012-006</td>
<td>006</td>
<td>1</td>
<td>White</td>
<td>43.6</td>
<td>2.65</td>
<td>3.35</td>
</tr>
<tr>
<td>ESW1203-012-010</td>
<td>010</td>
<td>1</td>
<td>White</td>
<td>27.9</td>
<td>2.90</td>
<td>3.60</td>
</tr>
<tr>
<td>ESW1203-012-012</td>
<td>012</td>
<td>1</td>
<td>White</td>
<td>21.9</td>
<td>3.15</td>
<td>3.90</td>
</tr>
<tr>
<td>ESW1203-022-004</td>
<td>004</td>
<td>2</td>
<td>1 Red 1 Blue</td>
<td>89.66</td>
<td>3.89</td>
<td>5.35</td>
</tr>
<tr>
<td>ESW1203-022-006</td>
<td>006</td>
<td>2</td>
<td>1 Red 1 Blue</td>
<td>44.47</td>
<td>4.21</td>
<td>5.64</td>
</tr>
<tr>
<td>ESW1203-032-004</td>
<td>004</td>
<td>3</td>
<td>1 Red 1 Blue 1 Yellow</td>
<td>89.66</td>
<td>4.10</td>
<td>5.65</td>
</tr>
</tbody>
</table>

#### ESW 1203

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>Nbr of cores</th>
<th>Colours of cores</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESW1203-012-004</td>
<td>004</td>
<td>1</td>
<td>White</td>
<td>87.9</td>
<td>2.40</td>
<td>3.25</td>
</tr>
<tr>
<td>ESW1203-012-006</td>
<td>006</td>
<td>1</td>
<td>White</td>
<td>43.6</td>
<td>2.65</td>
<td>3.35</td>
</tr>
<tr>
<td>ESW1203-012-010</td>
<td>010</td>
<td>1</td>
<td>White</td>
<td>27.9</td>
<td>2.90</td>
<td>3.60</td>
</tr>
<tr>
<td>ESW1203-012-012</td>
<td>012</td>
<td>1</td>
<td>White</td>
<td>21.9</td>
<td>3.15</td>
<td>3.90</td>
</tr>
<tr>
<td>ESW1203-022-004</td>
<td>004</td>
<td>2</td>
<td>1 Red 1 Blue</td>
<td>89.66</td>
<td>3.89</td>
<td>5.35</td>
</tr>
<tr>
<td>ESW1203-022-006</td>
<td>006</td>
<td>2</td>
<td>1 Red 1 Blue</td>
<td>44.47</td>
<td>4.21</td>
<td>5.64</td>
</tr>
<tr>
<td>ESW1203-032-004</td>
<td>004</td>
<td>3</td>
<td>1 Red 1 Blue 1 Yellow</td>
<td>89.66</td>
<td>4.10</td>
<td>5.65</td>
</tr>
</tbody>
</table>
Fireproof Cable
Single core

Applications
- Use in essential services.

Electrical Characteristics
- Temperature rating: -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating: 600 Volts rms
- Dimensions and weights: see table on this data sheet.
- Very good fire resistance.
- Very good resistance to Aircraft Fluids.

Identification
- Core identification:
  - Colour: White with a helical red stripe
  - Marking Wording: ESW1250-010-xxx-FX-FF-** or ESW1251-010-xxx-FX-FF-**
  - With: xxx = Size Code
  - ** = Year of manufacturing

Specification: ESW1250 / ESW1251-010-XXX

PRODUCT REFERENCES
ESW 1250-010-xxx
ESW 1251-010-xxx
ESW 1252 / ESW 1253
-012-xxx
-022-xxx
-032-xxx
-042-xxx

CONSTRUCTION
CONDUCTOR
1. Stranded conductor:
   - Nickel clad copper alloy (ESW1250)
   - Nickel clad copper (ESW1251)

INSULATION
2. Fire resistant insulation
3. Polyimide Tape
4. PTFE Tape
## DIMENSIONS and WEIGHTS

### ESW 1250

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code (AECMA)</th>
<th>Gauge (AWG)</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max.</td>
<td>Min.</td>
<td>Max.</td>
<td>Max.</td>
<td></td>
</tr>
<tr>
<td>ESW1250-010-004</td>
<td>004</td>
<td>22</td>
<td>95</td>
<td>1.45</td>
<td>1.85</td>
</tr>
<tr>
<td>ESW1250-010-006</td>
<td>006</td>
<td>20</td>
<td>51.1</td>
<td>1.60</td>
<td>2.00</td>
</tr>
<tr>
<td>ESW1250-010-010</td>
<td>010</td>
<td>18</td>
<td>32.7</td>
<td>1.90</td>
<td>2.32</td>
</tr>
<tr>
<td>ESW1250-010-012</td>
<td>012</td>
<td>16</td>
<td>25.6</td>
<td>2.10</td>
<td>2.57</td>
</tr>
</tbody>
</table>

### ESW 1251

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code (AECMA)</th>
<th>Gauge (AWG)</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max.</td>
<td>Min.</td>
<td>Max.</td>
<td>Max.</td>
<td></td>
</tr>
<tr>
<td>ESW1251-010-004</td>
<td>004</td>
<td>22</td>
<td>87.9</td>
<td>1.45</td>
<td>1.85</td>
</tr>
<tr>
<td>ESW1251-010-006</td>
<td>006</td>
<td>20</td>
<td>43.6</td>
<td>1.60</td>
<td>2.00</td>
</tr>
<tr>
<td>ESW1251-010-010</td>
<td>010</td>
<td>18</td>
<td>27.9</td>
<td>1.90</td>
<td>2.32</td>
</tr>
<tr>
<td>ESW1251-010-012</td>
<td>012</td>
<td>16</td>
<td>21.9</td>
<td>2.10</td>
<td>2.57</td>
</tr>
</tbody>
</table>
### Fireproof Cable
Single and Multi-cores Screened and Jacketed

#### Applications
- Use in essential services.

#### Electrical Characteristics
- Temperature rating: -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating: 600 Volts rms
- Dimensions and weights: see table on this data sheet.
- Very good fire resistance.
- Very good resistance to Aircraft Fluids.

#### Identification
- Core identification Colours:
  - Single core: White
  - Two cores: Red – Blue
  - Three cores: Red – Blue - Yellow
  - Four cores: Red – Blue – Yellow – Green
- Jacket identification colour: White with narrow red stripe
- Marking:
  - Wording: ESW1252-+++-xxx-FX-FF-** or ESW1253-+++-xxx-FX-FF-**
  - +++ = Form Code
  - xxx = Size Code
  - ** = Year of manufacturing

#### Specification: ESW1252 / ESW1253-+++-XXX

### PRODUCT REFERENCES

<table>
<thead>
<tr>
<th>ESW 1252 / ESW 1253</th>
<th>-012-xxx</th>
<th>-022-xxx</th>
<th>-032-xxx</th>
<th>-042-xxx</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESW 1250</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESW 1251</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CONSTRUCTION

#### CORE
- **Conductor**
  - Stranded conductor:
    - Nickel clad copper alloy (ESW1252)
    - Nickel clad copper (ESW1253)
    - 004: 19 x 0.15 mm
    - 006: 19 x 0.20 mm
    - 010: 19 x 0.25 mm
    - 012: 19 x 0.30 mm

#### Insulation
- **Fireproof insulation**

#### SCREEN
- **Nickel plated copper braid**

#### JACKET
- **PTFE Tape(s)**

---

Passing on or copying of the document, use or communicate of its content is not permitted without prior written authorization. Information subject to change without notice.
### DIMENSIONS and WEIGHTS

#### ESW 1252

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>Nbr of cores</th>
<th>Colours of cores</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESW1252-012-004</td>
<td>004</td>
<td>1</td>
<td>White</td>
<td>95.0</td>
<td>2.40</td>
<td>3.25</td>
</tr>
<tr>
<td>ESW1252-012-006</td>
<td>006</td>
<td>1</td>
<td>White</td>
<td>51.1</td>
<td>2.65</td>
<td>3.50</td>
</tr>
<tr>
<td>ESW1252-012-010</td>
<td>010</td>
<td>1</td>
<td></td>
<td>32.7</td>
<td>2.90</td>
<td>3.80</td>
</tr>
<tr>
<td>ESW1252-012-012</td>
<td>012</td>
<td>1</td>
<td></td>
<td>25.6</td>
<td>3.15</td>
<td>4.10</td>
</tr>
<tr>
<td>ESW1252-022-004</td>
<td>004</td>
<td>2</td>
<td>1 Red, 1 Blue</td>
<td>96.9</td>
<td>3.89</td>
<td>5.35</td>
</tr>
<tr>
<td>ESW1252-022-006</td>
<td>006</td>
<td>2</td>
<td>1 White, 1 Blue</td>
<td>52.1</td>
<td>4.21</td>
<td>5.64</td>
</tr>
<tr>
<td>ESW1252-022-010</td>
<td>010</td>
<td>2</td>
<td></td>
<td>33.4</td>
<td>4.70</td>
<td>6.00</td>
</tr>
<tr>
<td>ESW1252-022-012</td>
<td>012</td>
<td>2</td>
<td></td>
<td>26.1</td>
<td>5.20</td>
<td>6.50</td>
</tr>
</tbody>
</table>

#### ESW 1253

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>Nbr of cores</th>
<th>Colours of cores</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESW1253-012-004</td>
<td>004</td>
<td>1</td>
<td>White</td>
<td>87.9</td>
<td>2.40</td>
<td>3.25</td>
</tr>
<tr>
<td>ESW1253-012-006</td>
<td>006</td>
<td>1</td>
<td></td>
<td>43.6</td>
<td>2.65</td>
<td>3.50</td>
</tr>
<tr>
<td>ESW1253-012-010</td>
<td>010</td>
<td>1</td>
<td></td>
<td>27.9</td>
<td>2.90</td>
<td>3.80</td>
</tr>
<tr>
<td>ESW1253-012-012</td>
<td>012</td>
<td>1</td>
<td></td>
<td>21.9</td>
<td>3.15</td>
<td>4.10</td>
</tr>
<tr>
<td>ESW1253-022-004</td>
<td>004</td>
<td>2</td>
<td>1 Red, 1 Blue</td>
<td>89.66</td>
<td>3.89</td>
<td>5.35</td>
</tr>
<tr>
<td>ESW1253-022-006</td>
<td>006</td>
<td>2</td>
<td>1 White, 1 Blue</td>
<td>44.47</td>
<td>4.21</td>
<td>5.64</td>
</tr>
<tr>
<td>ESW1253-022-010</td>
<td>010</td>
<td>2</td>
<td></td>
<td>28.46</td>
<td>4.70</td>
<td>6.00</td>
</tr>
<tr>
<td>ESW1253-022-012</td>
<td>012</td>
<td>2</td>
<td></td>
<td>22.34</td>
<td>5.20</td>
<td>6.50</td>
</tr>
<tr>
<td>ESW1253-032-004</td>
<td>004</td>
<td>3</td>
<td>1 Red, 1 Blue, 1 Yellow</td>
<td>89.66</td>
<td>4.10</td>
<td>5.65</td>
</tr>
<tr>
<td>ESW1253-032-006</td>
<td>006</td>
<td>3</td>
<td>1 Red, 1 Blue, 1 Yellow</td>
<td>44.47</td>
<td>4.40</td>
<td>5.97</td>
</tr>
<tr>
<td>ESW1253-032-010</td>
<td>010</td>
<td>3</td>
<td></td>
<td>28.46</td>
<td>5.16</td>
<td>6.40</td>
</tr>
<tr>
<td>ESW1253-032-012</td>
<td>012</td>
<td>3</td>
<td></td>
<td>22.34</td>
<td>5.54</td>
<td>6.80</td>
</tr>
</tbody>
</table>
Fireproof Cable
Single core

Applications
☑ Aero engine services.

Electrical Characteristics
☑ Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
☑ Voltage Rating : 600 Volts rms
☑ Dimensions and weights : see table on this data sheet.
☑ Very good fire resistance .
☑ Very good resistance to Aircraft Fluids.

Identification
☑ Core identification :
  Colour : White with a helical red stripe
  Marking : ESW1254-010-002-FX-FF-**
  With : FX = Country of origin
          FF = Manufacturer’s code
          ** = Year of manufacturing

Specification : ESW1254-010-002
## DIMENSIONS and WEIGHTS

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>Gauge (AWG)</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESW1254-010-002</td>
<td>002</td>
<td>24</td>
<td>1.20</td>
<td>1.65</td>
<td>9.50</td>
</tr>
</tbody>
</table>

Max. Min. Max. Max.
Filotex®

Fireproof Cable
Two-cores Twisted Screened and Jacketed

Applications
- Aero engine services.

Electrical Characteristics
- Temperature rating: -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating: 600 Volts rms
- Dimensions and weights: see table on this data sheet.
- Very good fire resistance.
- Very good resistance to Aircraft Fluids.

Identification
- Core identification Colours:
  Two cores: Red – Blue
  Jacket identification colour: White with narrow red stripe
- Marking Wording: ESW1254-022-002-FX-FF-**
  FX = Country of origin
  FF = Manufacturer’s code
  ** = Year of manufacturing

Specification: ESW1254-022-002
## DIMENSIONS and WEIGHTS

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>Nbr of cores</th>
<th>Colours of cores</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESW1254-022-002</td>
<td>002</td>
<td>2</td>
<td>1 Red 1 Blue</td>
<td>135</td>
<td>2.95</td>
<td>4.45</td>
</tr>
</tbody>
</table>
ESW 1600-010-XXX
Thermocouple Nickel Chromium
ESW 1601-010-XXX
Thermocouple Nickel Aluminium,
Fire Resistant Cable

Applications
- Aero engine services.

Electrical Characteristics
- Temperature rating: -65°C / +260°C (Ambiant. + Rise.)
- Dimensions and weights: see table on this data sheet.
- Very good fire resistance.
- Very good resistance to Aircraft Fluids.

Identification
- Core identification:
  - Colour: White (ESW 1600)
  - Green (ESW 1601)
- Marking Wording: ESW1600-010-xxx-FX-FF-**
  - ESW1601-010-xxx-FX-FF-**
  - With: xxx = Size Code
  - ** = Year of manufacturing

Specification: ESW1600-010-XXX
Specification: ESW1601-010-XXX

PRODUCT REFERENCES
ESW 1600-010-xxx
ESW 1601-010-xxx
ESW 1602-022-xxx
ESW 1603-025-xxx

CONSTRUCTION
CONDUCTOR
- Stranded conductor:
  - Nickel chromium (ESW 1600)
  - Nickel Aluminium (ESW 1601)

INSULATION
- Fire resistant insulation
- Polyimide Tape
- PTFE Tape
## DIMENSIONS and WEIGHTS

### NICKEL CHROMIUM

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code (AECMA)</th>
<th>Size (AWG)</th>
<th>Gauge</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESW1600-010-006</td>
<td>006</td>
<td>20</td>
<td>1100</td>
<td>1.60</td>
<td></td>
<td>2.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1300</td>
<td></td>
<td>1.60</td>
<td>10.5</td>
</tr>
<tr>
<td>ESW1600-010-010</td>
<td>010</td>
<td>18</td>
<td>705</td>
<td>1.92</td>
<td></td>
<td>2.32</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>851</td>
<td></td>
<td>1.92</td>
<td>14.4</td>
</tr>
<tr>
<td>ESW1600-010-012</td>
<td>012</td>
<td>16</td>
<td>489</td>
<td>2.17</td>
<td></td>
<td>2.57</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>591</td>
<td></td>
<td>2.17</td>
<td>18.7</td>
</tr>
<tr>
<td>ESW1600-010-050</td>
<td>050</td>
<td>10</td>
<td>133</td>
<td>3.65</td>
<td></td>
<td>4.05</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>162</td>
<td></td>
<td>3.65</td>
<td>56.5</td>
</tr>
</tbody>
</table>

### NICKEL ALUMINIUM

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code (AECMA)</th>
<th>Size (AWG)</th>
<th>Gauge</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESW1601-010-006</td>
<td>006</td>
<td>20</td>
<td>434</td>
<td>1.60</td>
<td></td>
<td>2.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>524</td>
<td></td>
<td>1.60</td>
<td>10.5</td>
</tr>
<tr>
<td>ESW1601-010-010</td>
<td>010</td>
<td>18</td>
<td>278</td>
<td>1.92</td>
<td></td>
<td>2.32</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>336</td>
<td></td>
<td>1.92</td>
<td>14.4</td>
</tr>
<tr>
<td>ESW1601-010-012</td>
<td>012</td>
<td>16</td>
<td>193</td>
<td>2.17</td>
<td></td>
<td>2.57</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>234</td>
<td></td>
<td>2.17</td>
<td>18.7</td>
</tr>
<tr>
<td>ESW1601-010-050</td>
<td>050</td>
<td>10</td>
<td>52</td>
<td>3.65</td>
<td></td>
<td>4.05</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>64</td>
<td></td>
<td>3.65</td>
<td>56.5</td>
</tr>
</tbody>
</table>
Filotex®

Fire Resistant Cable
Thermocouple Nickel Chromium/Nickel Aluminium

Applications
- Aero engine services.

Electrical Characteristics
- Temperature rating: -65°C / +260°C (Ambiant. + Rise.)
- Voltage Rating: 600 Volts rms
- Dimensions and weights: see table on this data sheet.
- Very good fire resistance.
- Very good resistance to Aircraft Fluids.

Identification
- Core identification Colours:
  - Nickel Chromium: white
  - Nickel Aluminium: green

  Jacket identification colour: Green with red stripe

- Marking: ESW1254-022-002-FX-FF-**

  xxx = size code
  FX = Country of origin
  FF = Manufacturer’s code
  ** = Year of manufacturing

Specification: ESW1602-022-xxx

PRODUCT REFERENCES
ESW 1602-022-xxx
ESW 1600
ESW 1601

CONSTRUCTION

CORE
Conductor
- Stranded conductor:
  - Nickel Chromium/Nickel Aluminium
    006: 19 x 0.20 mm
    010: 19 x 0.25 mm
    012: 19 x 0.30 mm
    050: 61 x 0.32 mm

Insulation
- Fire resistant insulation

3 Polyimide Tape
4 PTFE Tape

SCREEN
5 Nickel plated copper braid

JACKET
6 PTFE Tape(s)
## DIMENSIONS and WEIGHTS

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESW1602-022-006</td>
<td>006</td>
<td>Nickel Chromium Min. 1122 Max. 1357</td>
<td>Min. 443 Max. 534</td>
<td>4.40 5.64 50.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nickel Aluminium Min. 443 Max. 534</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESW1602-022-010</td>
<td>010</td>
<td>Nickel Chromium Min. 719 Max. 868</td>
<td>Min. 283 Max. 343</td>
<td>4.70 6.0 60.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nickel Aluminium Min. 283 Max. 343</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESW1602-022-012</td>
<td>012</td>
<td>Nickel Chromium Min. 499 Max. 603</td>
<td>Min. 197 Max. 239</td>
<td>5.20 6.50 72.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nickel Aluminium Min. 197 Max. 239</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESW1602-022-050</td>
<td>050</td>
<td>Nickel Chromium Min. 136 Max. 165</td>
<td>Min. 53 Max. 65</td>
<td>7.50 9.50 148.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nickel Aluminium Min. 53 Max. 65</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Type "RMS"**

*(R O H R)*

**Filotex®**

**Characteristics**
- Construction: See RMS (next pages)
- Voltage Rating: See RMS (next pages)
- Operating Temperature: See RMS (next pages)
- Diameters and weight according to Specification and Standards.

**Identification**
- Core Colors: See next pages.
- Marking: See next pages.

**Applications**
- Aircraft / Engines

**CONSTRUCTION**

Several types of construction are possible:

1. Single wire shielded and Jacketed
2. Twisted cables
3. Two or more cores twisted shielded and Jacketed
4. Two or more cores twisted Unshielded Jacketed

**Specifications**

- **RMS** Revision and Date, see each type
### QPL RMS 302
**Abrasion resistant**

<table>
<thead>
<tr>
<th>Rohr P/N</th>
<th>Construction</th>
<th>Comments</th>
<th>Voltage Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS 302-**</td>
<td>Conductor: Nickel-coated copper, Insulated: PTFE jacket, reinforced with abrasion resistant mineral fillers</td>
<td>Color: Grey. Marking: 2105-1.** F0241</td>
<td>600 V (RMS)</td>
</tr>
<tr>
<td>(AWG 18 to 14)</td>
<td>Basic wires (RMS 302-**) twisted, to form a multi-conductor.</td>
<td>Basic wire with a spiral colored stripe as follows:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 cond. : Red, Blue</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 cond. : Red, Blue, Yellow</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 cond. : Red, Blue, Yellow, Green</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Only basic wire shall be marked: 2105-4.** F0241)</td>
<td></td>
</tr>
<tr>
<td>RMS 302-#J**</td>
<td>Basic wires (RMS 302-**) or twisted cable</td>
<td>Single conductor: Grey + marking on core 1105-1.** F0241</td>
<td></td>
</tr>
<tr>
<td>(AWG 18 to 14)</td>
<td>Braid: Nickel coated copper, Jacket: PTFE tapes (fused)</td>
<td>Multi-conductors: 1st. cond.: Grey + Red stripe + marking :</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2105-1.** F0241</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2nd cond.: Grey + Blue stripe</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3rd cond.: Grey + Yellow stripe</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4th cond.: Grey + Green stripe</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>All Jackets: Grey</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>*** See note ***</td>
<td></td>
</tr>
<tr>
<td>#</td>
<td>Number of conductor ** = AWG</td>
<td>Note: The cable product identification shall be printed on a marker tape placed beneath the shield :</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1105-4.** F0241)</td>
<td></td>
</tr>
</tbody>
</table>

### Non QPL RMS 320
**Low Noise Cable**

<table>
<thead>
<tr>
<th>Rohr P/N</th>
<th>Construction</th>
<th>Color</th>
<th>Voltage Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS 320-**</td>
<td>Conductor: Nickel clad copper, Insulated: Impregnated Inorganic fiber, TFE coated glass braid, PTFE tapes (fused)</td>
<td>White</td>
<td>600 V (RMS)</td>
</tr>
<tr>
<td>(AWG 18 to 8)</td>
<td></td>
<td>Marking: 3101-1-**-LS F0241</td>
<td></td>
</tr>
</tbody>
</table>

### RMS 322
**Miniature Firezone, high temperature**

<table>
<thead>
<tr>
<th>Rohr P/N</th>
<th>Construction</th>
<th>Color</th>
<th>Voltage Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS 322-**</td>
<td>Conductor: Nickel clad copper, Insulated: Impregnated Inorganic fiber, TFE coated glass braid, PTFE tapes (fused)</td>
<td>White</td>
<td>600 V (RMS)</td>
</tr>
<tr>
<td>(AWG 18 to 8)</td>
<td></td>
<td>Marking: 3101-1-**-MS F0241</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TFE coated glass braid</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2nd cond.: Blue</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3rd cond.: Yellow</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4th cond.: Green</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>All Jackets: Grey</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>*** See note ***</td>
<td></td>
</tr>
<tr>
<td>#</td>
<td>Number of conductor ** = AWG</td>
<td>Note: The cable product identification shall be printed on a marker tape placed beneath the shield :</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1124-4.**-LS F0241)</td>
<td></td>
</tr>
</tbody>
</table>

### RMS 323
**Miniature Firezone, high temperature, high strength copper alloy**

<table>
<thead>
<tr>
<th>Rohr P/N</th>
<th>Construction</th>
<th>Color</th>
<th>Voltage Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS 323-**</td>
<td>Conductor: Nickel clad, high strength copper alloy, Insulated: Impregnated Inorganic fiber, TFE coated glass braid, PTFE tapes (fused)</td>
<td>White</td>
<td>600 V (RMS)</td>
</tr>
<tr>
<td>(AWG 20 to 16)</td>
<td></td>
<td>Marking: 3101-1-**-MS F0241</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TFE coated glass braid</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2nd cond.: Blue</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3rd cond.: Yellow</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4th cond.: Green</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>All Jackets: Grey</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>*** See note ***</td>
<td></td>
</tr>
<tr>
<td>#</td>
<td>Number of conductor ** = AWG</td>
<td>Note: The cable product identification shall be printed on a marker tape placed beneath the shield :</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1124-4.**-LS F0241)</td>
<td></td>
</tr>
</tbody>
</table>

### RMS 324
**High temperature, NPC, severe wind and moisture problem (swamp) areas**

<table>
<thead>
<tr>
<th>Rohr P/N</th>
<th>Construction</th>
<th>Color</th>
<th>Voltage Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS 324-**</td>
<td>Conductor: Nickel-coated copper, Insulated: PTFE tape + Polyimide tape, TFE coated glass braid, PTFE tapes (fused)</td>
<td>Light grey</td>
<td>600 V (RMS)</td>
</tr>
<tr>
<td>(AWG 18 to 0000)</td>
<td></td>
<td>Marking: 324-1.** F0241 (18 AWG through 2)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>324-** F0241 (1/0 AWG through 4/0)</td>
<td></td>
</tr>
<tr>
<td>RMS 324-#J**</td>
<td>Twisted and jacketed cable: Basic wires (RMS 324-**), Jacket: PTFE tapes (fused)</td>
<td>Grey</td>
<td>260°C</td>
</tr>
<tr>
<td>(AWG 18,16 and 12)</td>
<td></td>
<td>Marking: 324-1-**-LS F0241</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>*** See note ***</td>
<td></td>
</tr>
<tr>
<td>RMS 324-#J**</td>
<td>Shielded and jacketed wire and cable: Braid: Nickel plated copper, Jacket: PTFE tapes (fused)</td>
<td>Grey</td>
<td>260°C</td>
</tr>
<tr>
<td>(AWG 18,16 and 14)</td>
<td></td>
<td>Marking: 324-1-**-LS F0241</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>*** See note ***</td>
<td></td>
</tr>
</tbody>
</table>

### Note:
- The cable product identification shall be printed on a marker tape placed beneath the shield: (1124-4.**-LS F0241).
### RMS 326<br>Miniature Firezone, high temperature (CFMI ENGINES)

<table>
<thead>
<tr>
<th>Rohr P/N</th>
<th>Construction</th>
<th>Comments</th>
<th>Voltage Rating</th>
<th>Temperature Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS 326-#SJ-**</td>
<td>Shielded and jacketed single or multi-conductor cables twisted together: (Basic wire: See RMS 322-**)&lt;br&gt;Braid: Nickel plated copper&lt;br&gt;PTFE tape&lt;br&gt;PTFE coated glass braid&lt;br&gt;Jacket: PTFE tapes (fused)</td>
<td>Single conductor: White + marking on core '1126-1-<strong>-LS F0241'&lt;br&gt;Multi-conductors: 1st.cond.: Red + marking '3101-1-</strong>-LS F0241'&lt;br&gt;2nd.cond.: Blue&lt;br&gt;3rd cond.: Yellow&lt;br&gt;4th cond.: Green&lt;br&gt;Jacket: White. The cable product identification shall be printed on a marker tape placed beneath the shield: '1126-1-**-LS F0241'&lt;br&gt;Note: (AWG 18 to 14)</td>
<td>600 V (RMS)</td>
<td>260°C</td>
</tr>
</tbody>
</table>

** = AWG

# = Number of conductor

### RMS 327<br>Miniature Firezone, high temperature, high strength copper alloy (CFMI ENGINES)

<table>
<thead>
<tr>
<th>Rohr P/N</th>
<th>Construction</th>
<th>Comments</th>
<th>Voltage Rating</th>
<th>Temperature Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS 327-#SJ-**</td>
<td>Shielded and jacketed single or multi-conductor cables twisted together: (Basic wire: See RMS 322-**)&lt;br&gt;Braid: Nickel plated copper&lt;br&gt;PTFE tape&lt;br&gt;PTFE coated glass braid&lt;br&gt;Jacket: PTFE tapes (fused)</td>
<td>Single conductor: White + marking on core '1127-1-<strong>-MS F0241'&lt;br&gt;Multi-conductors: 1st.cond.: Red + marking '3101-1-</strong>-MS F0241'&lt;br&gt;2nd.cond.: Blue&lt;br&gt;3rd cond.: Yellow&lt;br&gt;4th cond.: Green&lt;br&gt;Jacket: White. The cable product identification shall be printed on a marker tape placed beneath the shield: '1127-1-**-MS F0241'&lt;br&gt;Note: (AWG 20 to 16)</td>
<td>600 V (RMS)</td>
<td>260°C</td>
</tr>
</tbody>
</table>

** = AWG

# = Number of conductor

### RMS 328<br>Miniature Firezone, high temperature

<table>
<thead>
<tr>
<th>Rohr P/N</th>
<th>Construction</th>
<th>Comments</th>
<th>Voltage Rating</th>
<th>Temperature Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMS 328-#SJ-**</td>
<td>Shielded and jacketed single or multi-conductor cables, twisted together: (Basic wire: RMS 322-**)&lt;br&gt;Braid: Nickel plated copper&lt;br&gt;PTFE tape&lt;br&gt;Jacket: PTFE tapes (fused)</td>
<td>Single conductor: White + marking on core '1128-1-<strong>-LS F0241'&lt;br&gt;Multi-conductors: 1st.cond.: Red + marking '3101-1-</strong>-LS F0241'&lt;br&gt;2nd.cond.: Blue&lt;br&gt;3rd cond.: Yellow&lt;br&gt;4th cond.: Green&lt;br&gt;Jacket: White. The cable product identification shall be printed on a marker tape placed beneath the shield: '1128-1-<strong>-LS F0241'&lt;br&gt;Note: Only red wire shall be marked: '3101-1-</strong>-LS F0241'&lt;br&gt;Note: (AWG 18 to 16)</td>
<td>600 V (RMS)</td>
<td>260°C</td>
</tr>
</tbody>
</table>

** = AWG

# = Number of conductor

Note: The cable product identification shall be printed on a marker tape placed beneath the jacket: '3101-1-**-GLS F0241'
### RMS 329

**Revision:** N  
**Date:** 14/05/99

**Miniature Firezone, high temperature, high strength copper alloy**

<table>
<thead>
<tr>
<th>Rohr P/N</th>
<th>Construction</th>
<th>Comments</th>
<th>Voltage Rating</th>
</tr>
</thead>
</table>
| **RMS 329-#J-** | Twisted and jacketed cable:  
Basic wires (RMS 323-**):  
Separator polyimide tape  
Jacket: PTFE tapes (fused) | Cores: 2 cond.: Red, Blue  
3 cond.: Red, Blue, Yellow  
4 cond.: Red, Blue, Yellow, Green  
(Only red wire shall be marked: '3101-1-**-MS F0241')  
Jacket: White.  
*** See note *** | 600 V (RMS) |
| (AWG 20 to 16) | | | |
| **RMS 329-#5J-** | Shielded and jacketed single or multi-conductor cables, twisted together:  
(Basic wire: RMS 323-**)  
Braid: Nickel plated copper  
Jacket: PTFE tapes (fused) | Single conductor: White + marking on core '1129-1-**-LS F0241'  
Multi-conductors: 1st cond.: Red + marking '3101-1-**-MS F0241'  
2nd cond.: Blue  
3rd cond.: Yellow  
4th cond.: Green  
Jacket: White.  
The cable product identification shall be printed on a marker tape placed beneath the shield: '1129-#-**-MS F0241' | Temperature Rating  
260°C |
| (AWG 20 to 18) | | | |

# = Number of conductor  
* = AWG  

**Note:** The cable product identification shall be printed on a marker tape placed beneath the jacket: '3101-#-**-GMS F0241'

---

### RMS 332

**Revision:** E  
**Date:** 08/02/96

**S.C.O. 3 Date:** 19/07/96

**High temperature, high strength copper alloy, severe wind and moisture problem (swamp) areas**

<table>
<thead>
<tr>
<th>Rohr P/N</th>
<th>Construction</th>
<th>Comments</th>
<th>Voltage Rating</th>
</tr>
</thead>
</table>
| **RMS 332-** | Conductor: Nickel coated high strength copper alloy  
Insulated: PTFE tape  
Polyimide tape  
PTFE coated glass braid  
Two PTFE tapes (fused) | Color: Light grey  
Marking: 332-1-**-MS F0241 | 600 V (RMS) |
| (AWG 20 to 16) | | | |
| **RMS 332-#J-** | Twisted and jacketed cable:  
Basic wires (RMS 332-**):  
Separator polyimide tape  
Jacket: PTFE tapes (fused) | Cores: 2 cond.: Red, Blue  
3 cond.: Red, Blue, Yellow  
4 cond.: Red, Blue, Yellow, Green  
(Only red wire shall be marked: '332-1-**-MS F0241')  
Jacket: White.  
*** See note *** | Temperature Rating  
260°C |
| (AWG 20 to 16) | | | |
| **RMS 332-#5J-** | Shielded and jacketed single or multi-conductor cables, twisted together:  
(Basic wire: RMS 332-**)  
Braid: Nickel plated copper  
Jacket: PTFE tapes (fused) | Single conductor: White + marking on core '1132-1-**-MS F0241'  
Multi-conductors: 1st cond.: Red + marking '332-1-**-MS F0241'  
2nd cond.: Blue  
3rd cond.: Yellow  
4th cond.: Green  
Jacket: White.  
The cable product identification shall be printed on a marker tape placed beneath the shield: '1132-#-**-MS F0241' | |
| (AWG 20 to 16) | | | |

# = Number of conductor  
* = AWG  

**Note:** The cable product identification shall be printed on a marker tape placed beneath the jacket: '332-#-**-GMS F0241'
**Type 3000 A**

**Filotex®**

**Fire resistant cables**

To AIR 4527, B.N.Aé
These cables are approved by the Air Ministry under letters: N°31573 STA/EQ/E2 (10-02-65)
Registered at the B.N.Aé : N° 6418 400 C
Operating voltage: 600 volts RMS
Operating temperature: - 50°C to + 280°C (ambient + rise)

**Characteristics:**
- These cables are used at high ambient temperatures, up to 300°C at peak,
- They withstand a 1090°C flame applied for 5 minutes under a 250 V d.c. voltage,
- Non-flammable,
- They withstand most solvents.

**Technical requirements and control conditions:**
- Air4527 Specification (high temperature cables and fire resistant cables),

**Interchangeability:**

**CONSTRUCTION**

1. **CONDUCTOR**
   Stranded nickel clad copper

2. **Feeltlike winding of siliceous fibres**

3. **INSULATION**
   PTFE (wrapped)

4. **BRAID**
   Glass fiber braid coated with a PTFE varnish
   Colour coding: in natural colour + red stripe (printed indentification is possible on the braid)
# MECHANICAL & ELECTRICAL VALUES

<table>
<thead>
<tr>
<th>Type</th>
<th>Cross Sectional Area</th>
<th>AWG</th>
<th>n x Ø mm</th>
<th>mm</th>
<th>daN</th>
<th>mm</th>
<th>g/m</th>
<th>Ω / km</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000A</td>
<td>0.38</td>
<td>22</td>
<td>12 x 0.20</td>
<td>0.85</td>
<td>10.5</td>
<td>2.5</td>
<td>9.5</td>
<td>71.20</td>
<td>7</td>
</tr>
<tr>
<td>3000A</td>
<td>0.60</td>
<td>20</td>
<td>19 x 0.20</td>
<td>1.03</td>
<td>16.5</td>
<td>2.8</td>
<td>12.5</td>
<td>45.00</td>
<td>11</td>
</tr>
<tr>
<td>3000A</td>
<td>0.93</td>
<td>18</td>
<td>19 x 0.25</td>
<td>1.28</td>
<td>24.0</td>
<td>3.1</td>
<td>17.5</td>
<td>28.80</td>
<td>16</td>
</tr>
<tr>
<td>3000A</td>
<td>1.34</td>
<td>16</td>
<td>19 x 0.30</td>
<td>1.53</td>
<td>&gt; 30.0</td>
<td>3.5</td>
<td>21.5</td>
<td>20.00</td>
<td>22</td>
</tr>
<tr>
<td>3000A</td>
<td>1.91</td>
<td>14</td>
<td>27 x 0.30</td>
<td>1.87</td>
<td>&gt; 30.0</td>
<td>4.0</td>
<td>31.5</td>
<td>14.40</td>
<td>32</td>
</tr>
<tr>
<td>3000A</td>
<td>3.18</td>
<td>12</td>
<td>45 x 0.30</td>
<td>2.40</td>
<td>&gt; 30.0</td>
<td>4.5</td>
<td>47.5</td>
<td>8.45</td>
<td>41</td>
</tr>
<tr>
<td>3000A</td>
<td>5.15</td>
<td>10</td>
<td>73 x 0.30</td>
<td>3.10</td>
<td>&gt; 30.0</td>
<td>5.3</td>
<td>71.0</td>
<td>5.20</td>
<td>55</td>
</tr>
<tr>
<td>3000A</td>
<td>8.98</td>
<td>8</td>
<td>127 x 0.30</td>
<td>4.20</td>
<td>&gt; 30.0</td>
<td>6.7</td>
<td>114.0</td>
<td>3.00</td>
<td>75</td>
</tr>
<tr>
<td>3000A</td>
<td>13.40</td>
<td>6</td>
<td>27 x 7 x 0.30</td>
<td>5.60</td>
<td>&gt; 30.0</td>
<td>8.1</td>
<td>172.0</td>
<td>2.07</td>
<td>100</td>
</tr>
<tr>
<td>3000A</td>
<td>21.80</td>
<td>4</td>
<td>37 x 12 x 0.25</td>
<td>7.30</td>
<td>&gt; 30.0</td>
<td>9.6</td>
<td>262.0</td>
<td>1.27</td>
<td>135</td>
</tr>
<tr>
<td>3000A</td>
<td>34.50</td>
<td>2</td>
<td>37 x 19 x 0.25</td>
<td>8.80</td>
<td>&gt; 30.0</td>
<td>11.5</td>
<td>414.0</td>
<td>0.80</td>
<td>181</td>
</tr>
<tr>
<td>3000A</td>
<td>41.80</td>
<td>1</td>
<td>37 x 23 x 0.25</td>
<td>9.80</td>
<td>&gt; 30.0</td>
<td>12.8</td>
<td>480.0</td>
<td>0.66</td>
<td>211</td>
</tr>
<tr>
<td>3000A</td>
<td>52.70</td>
<td>0</td>
<td>37 x 29 x 0.25</td>
<td>10.80</td>
<td>&gt; 30.0</td>
<td>14.2</td>
<td>618.0</td>
<td>0.52</td>
<td>245</td>
</tr>
<tr>
<td>3000A</td>
<td>67.20</td>
<td>00</td>
<td>37 x 37 x 0.25</td>
<td>12.40</td>
<td>&gt; 30.0</td>
<td>15.7</td>
<td>781.0</td>
<td>0.41</td>
<td>283</td>
</tr>
</tbody>
</table>

The currents shown are valid for single wires in air. If the ambient temperature is lower than 250°C, the current ratings can be above those quoted in Air 7822 Specification, provided that the conductor temperature does not exceed 300°C. For cables in bundle please refer to Air 7822 Specification.
Filotex®

BMS 13-67
310 °C Rating
TMF 350-A FLEX SBJ

Very High Temperature Fire Resistant Shielded and Jacketed Cables

Applications
- Aero Engines and Very High Temperature Applications

Main data
- Voltage/Frequency Rating: 600 Volts RMS/2000 Hz Max.
- Operating Temperature: 20,000 hours at +313°C (595°F)
  or 10,000 hours at +321°C (610°F).
- Dimensions and weights: See Tables on This Data Sheet.
- Fire Resistance: Insulation resistance 10,000 Ohms Minimum.
- Bend Radius: Minimum 5 times cable O.D.

CONSTRUCTION
CORE(S)
1. Conductor: Nickel Clad High Strength Copper Alloy Conductor
   US Sizes
   Insulation: Very High Temperature and Fire Resistant insulation
   . High Temperature PTFE Tapes
   . PTFE Coated Fiber Glass Braid

SHIELD
2. Nickel Clad Copper Braid

JACKET
3. High Temperature PTFE Tapes
4. PTFE Coated Fiber Glass Braid

PRODUCT REFERENCES
TMF 350-A FLEX SBJ
BMS13-67T02C0*G0**

Specification
BMS 13-67 QPL
## DIMENSIONS AND WEIGHTS (METRIC UNITS)

### BASIC CORE

<table>
<thead>
<tr>
<th>FILOTEX® PART NUMBER</th>
<th>USAWG</th>
<th>Conductors</th>
<th>O.D. (Nbr x mm)</th>
<th>Maximum DC Resistance (Ohms/Km) at 23°C (73°F)</th>
<th>Nom.</th>
<th>Max.</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS13-67T0*C01G022</td>
<td>22</td>
<td>37 x 0.115</td>
<td>0.78</td>
<td>80.8</td>
<td>82.4</td>
<td>6.02</td>
<td>5.50</td>
</tr>
<tr>
<td>BMS13-67T0*C01G020</td>
<td>20</td>
<td>7 x 7 x 0.115</td>
<td>0.99</td>
<td>50.1</td>
<td>51.1</td>
<td>5.77</td>
<td>5.50</td>
</tr>
<tr>
<td>BMS13-67T0*C01G018</td>
<td>18</td>
<td>7 x 7 x 0.150</td>
<td>1.30</td>
<td>32.0</td>
<td>32.0</td>
<td>5.77</td>
<td>5.50</td>
</tr>
<tr>
<td>BMS13-67T0*C01G016</td>
<td>16</td>
<td>7 x 7 x 0.175</td>
<td>1.51</td>
<td>25.1</td>
<td>25.1</td>
<td>5.77</td>
<td>5.50</td>
</tr>
<tr>
<td>BMS13-67T0*C01G014</td>
<td>14</td>
<td>7 x 7 x 0.210</td>
<td>1.81</td>
<td>16.3</td>
<td>16.3</td>
<td>5.77</td>
<td>5.50</td>
</tr>
<tr>
<td>BMS13-67T0*C01G012</td>
<td>12</td>
<td>7 x 7 x 0.270</td>
<td>2.33</td>
<td>10.5</td>
<td>10.5</td>
<td>5.77</td>
<td>5.50</td>
</tr>
<tr>
<td>BMS13-67T0*C01G010</td>
<td>10</td>
<td>7 x 7 x 0.360</td>
<td>3.11</td>
<td>6.34</td>
<td>6.34</td>
<td>5.77</td>
<td>5.50</td>
</tr>
</tbody>
</table>

### FINISHED CABLE

<table>
<thead>
<tr>
<th>FILOTEX® PART NUMBER</th>
<th>USAWG</th>
<th>Nbr of Cores</th>
<th>Strands O.D. (mm)</th>
<th>O.D. (mm)</th>
<th>Resistance at 20°C (68°F) of Cores (Ohms/Km)</th>
<th>Nom.</th>
<th>Max.</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS13-67T0*C01G022</td>
<td>22</td>
<td>1</td>
<td>0.13</td>
<td>3.01</td>
<td>80.8</td>
<td>82.4</td>
<td>6.02</td>
<td>192.59</td>
<td>11.33</td>
</tr>
<tr>
<td>BMS13-67T0*C01G020</td>
<td>20</td>
<td>1</td>
<td>0.13</td>
<td>3.17</td>
<td>50.1</td>
<td>51.1</td>
<td>5.77</td>
<td>118.37</td>
<td>12.72</td>
</tr>
<tr>
<td>BMS13-67T0*C01G018</td>
<td>18</td>
<td>1</td>
<td>0.13</td>
<td>3.43</td>
<td>32.0</td>
<td>32.0</td>
<td>5.77</td>
<td>74.28</td>
<td>16.70</td>
</tr>
<tr>
<td>BMS13-67T0*C01G016</td>
<td>16</td>
<td>1</td>
<td>0.13</td>
<td>3.62</td>
<td>25.1</td>
<td>25.1</td>
<td>5.77</td>
<td>55.77</td>
<td>20.11</td>
</tr>
<tr>
<td>BMS13-67T0*C01G014</td>
<td>14</td>
<td>1</td>
<td>0.13</td>
<td>3.90</td>
<td>16.3</td>
<td>16.3</td>
<td>5.77</td>
<td>36.09</td>
<td>25.52</td>
</tr>
<tr>
<td>BMS13-67T0*C01G012</td>
<td>12</td>
<td>1</td>
<td>0.13</td>
<td>4.44</td>
<td>10.5</td>
<td>10.5</td>
<td>5.77</td>
<td>23.23</td>
<td>37.21</td>
</tr>
<tr>
<td>BMS13-67T0*C01G010</td>
<td>10</td>
<td>1</td>
<td>0.13</td>
<td>5.30</td>
<td>6.34</td>
<td>6.34</td>
<td>5.77</td>
<td>14.01</td>
<td>59.90</td>
</tr>
</tbody>
</table>

140 – 146 rue E. Delacroix / BP 1  
F – 92112 Draveil cedex – FRANCE  
Tel : +33 1 69 83 78 00  
Fax : +33 1 69 42 05 70

- 152 -
Filotex® Study 124585
Very High Temperature Fire Resistant Wires

Aero Engines and Very High Temperature Applications

Characteristics
- Tension/Frequency Rating: 600 Volts RMS/2000 Hz Max.
- Operating Temperatures: -65°C/+300°C
- Operating Life (Approx): 30 Hours at +370°C
  Or 300 Hours at +350°C
  Or 330 Hours at +310°C
  Or 2500 Hours at +300°C
  Or 32840 Hours at +260°C
  Total of 36000 hours
- Dimensions and Weights: See Table on Reverse Side of This Data Sheet
- Fluids Resistance: According to BMS 13-55.

Applications
- Heavy Duty Applications in Aero-engines and Very High Temperature Areas.

Specification
- BMS 13-55 For Fire and Fluids Resistance
- ST 448 006 3 01 A

CONSTRUCTION

CORE (study 124521)
1. 19 strands of Nickel Clad Copper conductor (Diameter of strands: 0.287 mm)
2. Special Fire Resistant Composite Insulation, very high temperature.

SCREEN
- Nickel Clad Copper Helicoidal Screen (Diameter of strands: 0.13mm)

JACKET
- Very high temperature resistant composite

PRODUCT REFERENCES
FILOTEX Ref: ET 124 585
## DIMENSIONS AND WEIGHTS

<table>
<thead>
<tr>
<th>FILOTEx® Reference</th>
<th>US AWG</th>
<th>Construction (N x mm)</th>
<th>Diameter (mm)</th>
<th>DC resistance (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Screen Ø Strands</th>
<th>Ø Nom. (mm)</th>
<th>Finished cable Ext. Diameter (mm)</th>
<th>Weight (Kg/Km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Et.124585</td>
<td>16</td>
<td>19 x 0.287</td>
<td>1.40</td>
<td>22.5</td>
<td>2.90</td>
<td>0.13</td>
<td>3.45</td>
<td>4.15</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1.55</td>
<td>55.8</td>
<td>3.40</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Max. at 20°C</td>
<td>Max. at 370°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note: The table provides detailed specifications for different cable constructions, including conductor, insulation, and finished cable dimensions along with their respective weights.*
Part 4

Coaxial cables for high frequency transmission
Laser UV miniature coaxial cable
Basic study: 122715 (UV Laser markable Jacket)

### Electrical characteristics

- **Characteristic impedance**: $50 \pm 5 \Omega$
- **Linear capacitance at 1 kHz**:
  - Nominal value: 90 pF/m
  - Maximal value: 100 pF/m
- **Attenuation at 10 MHz**: 0.09 dB/m
  - 100 MHz: 0.26 dB/m
  - 200 MHz: 0.37 dB/m
  - 500 MHz: 0.65 dB/m
  - 1000 MHz: 1.06 dB/m
  - 1500 MHz: 1.33 dB/m
- **Voltage rating**: 250 Volts Eff 50 Hz.
- **Voltage withstanding**: between dielectric and shield:
  - 3000 Volts Eff 50 Hz.
- **Jacket spark test**: 5000 Volts impulse.
- **DC resistance at 20°C**: ≤ 144 ohms/Km.
- **Insulation resistance**:
  - between dielectric and shield: ≥ 1500 Mohms . Km.
  - Jacket: ≥ 1500 Mohms . Km.
- **Nominal relative velocity of propagation**: 76%

### Physical characteristics

- **Nominal weight**: 13.0 g/m
- **Maximum weight**: 14.0 g/m.
- **Minimum bending radius**:
  - Static: 12 mm.
  - Dynamic: 25 mm.
- **Strippability**: mechanical device or automatic stripper.
- **Temperature rating**: -65°C to +150°C
- **Outer jacket color**: green

### Construction

1. **Conductor**
   - 19 x 0.098 mm
   - Silvered alloy
   - Nom. diameter = 0.48 mm.

2. **Insulation**
   - Expanded PTFE
   - Nom. diameter = 1.35 mm

3. **Shield**
   - Silver plated copper 7/100
   - Coverage ≥ 62 %

4. **Shield**
   - Silver plated copper 7/100
   - Coverage ≥ 62 % US
   - Nom. diameter = 2.00 mm

5. **Jacket**
   - Laser UV ETFE markable
   - OD: 2.35 ± 0.05 mm
Physical characteristics

- Fire resistance: No flame propagation (NFC 32070/C1)
  - Low smoke emission
- Resistance to fluids: good resistance to aircraft fluids.

Applications

- With similar transmission characteristics to KX 22A / RG 316U,
- This cable has the following advantages:
  - Lower diameter and weight.
  - Better bendability.
  - Better screening effectiveness (Double braid)
  - UV Laser marquability

- Recommended for Aeronautics uses and miniature systems.

Specifications:

- NFC 93 550 and MIL C 17
Laser UV miniature coaxial cable
Basic study: 123775 (FEP Jacket)

**Electrical characteristics**
- Characteristic impedance: $75 \pm 5 \Omega$
- Linear capacitance at 1 kHz
  - Nominal value: 60 pF/m
  - Maximal value: 65 pF/m
- Attenuation at 10 MHz: 0.09 dB/m
  - 100 MHz: 0.26 dB/m
  - 200 MHz: 0.37 dB/m
  - 500 MHz: 0.65 dB/m
  - 1000 MHz: 0.84 dB/m
  - 1500 MHz: 1.05 dB/m
- Voltage rating: 250 Volts Eff 50 Hz.
- Voltage withstanding: between dielectric and shield: 3000 Volts Eff 50 Hz.
- Jacket spark test: 5000 Volts impulse.
- Insulation resistance: between dielectric and shield: ≥1500 Mohms . Km.
- Nominal relative velocity of propagation: 76%

**Physical characteristics**
- Nominal weight: 12.5 g/m
- Maximum weight: 14.0 g/m.
- Minimum bending radius:
  - Static: 12 mm.
  - Dynamic: 25 mm.
- Strippability: mechanical device or automatic stripper.
- Temperature rating: -65°C to +150°C
- Outer jacket color: blue
Physical characteristics

- Fire resistance: No flame propagation (NFC 32070/C1)
- Resistance to fluids: good resistance to aircraft fluids.

Applications

- With similar transmission characteristics to KX 22A / RG 316U,
- This cable has the following advantages:
  - Lower diameter and weight.
  - Better bendability.
  - Better screening effectiveness (Double braid)
  - UV Laser marquability
- Recommended for Aeronautics uses and miniature systems.

Specifications:

- NFC 93 550 and MIL C 17
Laser UV miniature triaxial cable
Basic study: 123774 (UV Laser markable Jacket)

Electrical characteristics
- Characteristic impedance: $50 \pm 5 \Omega$
- Linear capacitance at 1 kHz
  - Nominal value: 90 pF/m
  - Maximal value: 100 pF/m
- Attenuation at 10 MHz: 0.09 dB/m
  - 100 MHz: 0.26 dB/m
  - 200 MHz: 0.37 dB/m
  - 500 MHz: 0.65 dB/m
  - 1000 MHz: 1.06 dB/m
  - 1500 MHz: 1.33 dB/m
- Voltage rating: 250 Volts Eff 50 Hz.
- Voltage withstanding: between dielectric and shield:
  - 3000 Volts Eff 50 Hz.
- Jacket spark test: 5000 Volts impulse.
- DC resistance at 20°C: $\leq 144 \text{ ohms/Km}$
- Insulation resistance:
  - between dielectric and shield: $\geq 1500 \text{ Mohms . Km}$
  - Jacket: $\geq 1500 \text{ Mohms . Km}$
- Nominal relative velocity of propagation: 76%

Physical characteristics
- Nominal weight: 27.0 g/m
- Maximum weight: 30.0 g/m.
- Minimum bending radius:
  - Static: 17 mm.
  - Dynamic: 35 mm.
- Strippability: mechanical device or automatic stripper.
- Temperature rating: -65°C to +150°C
- Outer jacket color: green

CONSTRUCTION
Basic core: study 124962
1. CONDUCTOR
   - 19 x 0.098 mm
   - Silvered alloy
   - Nom. diameter = 0.48 mm.
2. INSULATION
   - Expanded PTFE
   - Nom. diameter = 1.35 mm
3. SHIELD
   - Silver plated copper 7/100
   - Coverage $\geq 62 \%$
4. SHIELD
   - Silver plated copper 7/100
   - Coverage $\geq 62 \%$ US
   - Nom. diameter = 2.00 mm
5. JACKET
   - UV ETFE
   - OD $2.35 \pm 0.05$ mm
6. SHIELD
   - Silver plated copper 10/100
   - Coverage $\geq 62 \%$
   - Nom. diameter = 2.80 mm
7. JACKET
   - Laser UV ETFE markable
   - OD $3.45 \pm 0.10$ mm
Physical characteristics

- Fire resistance: No flame propagation (NFC 32070/C1)
  - Low smoke emission
- Resistance to fluids: good resistance to aircraft fluids.

Applications

- With similar transmission characteristics to KX 22A / RG 316U,
- This cable has the following advantages:
  - Lower diameter and weight.
  - Better bendability.
  - Better screening effectiveness (Double braid)
  - UV Laser marquability
- Recommended for Aeronautics uses and miniature systems.

Specifications:

- NFC 93 550 and MIL C 17
Laser UV miniature triaxial cable
Basic study : 123776 (UV Laser markable Jacket )

Electrical characteristics
- Characteristic impedance : 75 ± 5 Ω
- Linear capacitance at 1 kHz
  Nominal value : 60 pF/m
  Maximal value : 65 pF/m
- Attenuation at 10 MHz : 0.09 dB/m
  100 MHz : 0.26 dB/m
  200 MHz : 0.37 dB/m
  500 MHz : 0.65 dB/m
  1000 MHz : 0.84 dB/m
  1500 MHz : 1.05 dB/m
- Voltage rating : 250 Volts Eff 50 Hz.
- Voltage withstanding: between dielectric and shield:
  3000 Volts Eff 50 Hz.
- Jacket spark test : 5000 Volts impulse.
- Insulation resistance :
  between dielectric and shield : ≥1500 Mohms . Km.
  Jacket : ≥1500 Mohms . Km.
- Nominal relative velocity of propagation : 76%

Physical characteristics
- Nominal weight : 26.0 g/m
- Maximum weight : 29.0 g/m.
- Minimum bending radius :
  Static : 17 mm.
  Dynamic : 35 mm.
- Strippability : mechanical device or automatic stripper.
- Temperature rating: -65°C to +150°C
- Outer jacket color : blue
Physical characteristics

- Fire resistance: No flame propagation (NFC 32070/C1)
  Low smoke emission
- Resistance to fluids: good resistance to aircraft fluids.

Applications

- With similar transmission characteristics to KX 22A / RG 316U,
- This cable has the following advantages:
  - Lower diameter and weight
  - Better bendability
  - Better screening effectiveness (Double braid)
  - UV Laser marquability
- Recommended for Aeronautics uses and miniature systems.

Specifications:

- NFC 93 550 and MIL C 17
Filotex®

50 Ohms Coaxial Cable, 200°C Operating Temperature

**Applications**
- Designed for Signal Transmission Applications in Aeronautic environment.

**Main characteristics**
- Operating temperature: -65°C to +200°C (Ambient + Rise)
- Operating frequency: up to 3 GHz.
- Dimensions: see construction details hereunder
- Static bend radius: 37 mm
- Dynamic bend radius: 100 mm
- Max weight: 30 g/m
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- UV Laser markable Jacket.

**CONSTRUCTION**

1. **CONDUCTOR**
   - Solid Silver plated copper
   - OD: 0.88 to 0.93

2. **INSULATION**
   - Low density PTFE
   - OD: 2.35 ± 0.15 mm

3. **SHIELD**
   - Metallized foil
   - Silver plated copper braid
   - OD: 3.05 ± 0.15

4. **JACKET**
   - White FEP
   - OD: 3.55 ± 0.15 mm

**Electrical characteristics**
- See on next page

**Specifications**
- Product designed according to: prEN 4604-001, -002 and -003
- Tested according to prEN 3475 and pr EN 3838.

PRODUCT REFERENCES

EN 4604-003

---

Nexans
- Jacket Color identification : Green or Black

- Cable identification : Marking text : EN WN FRF**
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex®)
  ** = Year of manufacturing (ie. 02 = 2002)

- Dielectric strength : 4000 Vac
- Corona extinction voltage : 1700 Vac
- Insulation resistance : ≥ 1000 Mohm.km
- Characteristic impedance : 50 ± 2 Ω
- Linear capacitance : 88 pF/m max.
- Velocity of propagation : 225 000 km/s min. (75% relative)
- Transfer impedance : 30 mohms/m, up to 3GHz
- Maximal attenuation and rated power :

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Max Rated Power (W)</th>
<th>Attenuation at 20°C (dB/100m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>1100</td>
<td>11</td>
</tr>
<tr>
<td>200</td>
<td>660</td>
<td>19</td>
</tr>
<tr>
<td>400</td>
<td>450</td>
<td>28</td>
</tr>
<tr>
<td>1000</td>
<td>250</td>
<td>47</td>
</tr>
<tr>
<td>3000</td>
<td>150</td>
<td>90</td>
</tr>
</tbody>
</table>
50 Ohms Coaxial Cable,  
200°C Operating Temperature

Applications
- Designed for high frequency signal transmission in aircraft radio communication systems.

Main characteristics
- Operating temperature: -55°C to +200°C (Ambient + Rise)
- Operating frequency: up to 3 GHz.
- Dimensions: see construction details hereunder
- Static bend radius: 15 mm
- Dynamic bend radius: 28 mm
- Max weight: 20 g/m
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Especially designed for high EMC performances.

Electrical characteristics
- See on next page

Specifications
- Product designed according to: prEN 4604-001, -002 and -004
- Tested according to prEN 3475.

CONSTRUCTION

1. CONDUCTOR
   - 7 x 0.16 mm strands
   - OD: 0.51

2. INSULATION
   - Extruded PTFE
   - OD: 1.50

3. SHIELD
   - 1st layer: Silver plated copper braid
     - Strand diam: 0.085 mm
   - 2nd layer: High permeability metal tape
   - 3rd layer: Silver plated copper braid
     - Strand diam: 0.085 mm
     - OD: 2.31 ± 0.14 mm

4. JACKET
   - 2 Polyimide tapes + FEP coating
   - OD: 2.49 ± 0.16 mm
   - Color: White
- Jacket Color identification : Green
- Cable identification : Marking text : EN WN FREF**
  FR = Country of Origin (FR = France)
  F = Manufacturer       (F = Filotex®)
  ** = Year of manufacturing (ie. 02 = 2002)

- Dielectric strength : 1500 Vac
- Operating voltage : 1300 Vac
- Insulation resistance : ≥ 1000 Mohm.km
- Characteristic impedance : 50 ± 5 Ω
- Linear capacitance : (95 ± 10) pF/m
- Velocity of propagation : 207 000 km/s nominal (69% relative)
- Maximal attenuation and rated power :

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Max Rated Power (W)</th>
<th>Attenuation at 20°C (dB/100m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>600</td>
<td>26</td>
</tr>
<tr>
<td>100</td>
<td>400</td>
<td>36</td>
</tr>
<tr>
<td>200</td>
<td>270</td>
<td>55</td>
</tr>
<tr>
<td>400</td>
<td>180</td>
<td>78</td>
</tr>
<tr>
<td>1000</td>
<td>120</td>
<td>140</td>
</tr>
<tr>
<td>3000</td>
<td>75</td>
<td>195</td>
</tr>
</tbody>
</table>
50 Ohms Coaxial Cable, 
200°C Operating Temperature

**Applications**
- Designed for high frequency signal transmission in aircraft electrical systems

**Main characteristics**
- Operating temperature: -55°C to +200°C (Ambient + Rise)
- Operating frequency: up to 5 GHz.
- Dimensions: see construction details hereunder
- Static bend radius: 25 mm
- Dynamic bend radius: 70 mm
- Max weight: 35 g/m
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant.

**Electrical characteristics**
- See on next page

**Specifications**
- Product designed according to: prEN 4604-001, -002 and -006
- Tested according to prEN 3475.

**PRODUCT REFERENCES**
EN 4604-006

**CONSTRUCTION**

1. **CONDUCTOR**
   Solid silver plated copper
   OD: 1.02 ± 0.03 mm

2. **INSULATION**
   Expanded PTFE
   OD: 2.84 ± 0.10 mm

3. **SHIELD**
   1st layer
   Silver plated copper tape
   2nd layer
   Silver plated copper braid
   Strand diam.: 0.10 mm
   OD: 3.50 ± 0.20 mm

4. **JACKET**
   Violet FEP
   OD: 3.85 ± 0.15 mm
- Jacket Color identification : Black
- Cable identification : Marking text : EN WN FRF**
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex®)
  ** = Year of manufacturing (ie. 02=2002)

- Dielectric strength : 2500 Vac
- Operating voltage : 750 Vac
- Insulation resistance : ≥ 1000 Mohm.km
- Characteristic impedance : 50 ± 3 Ω
- Linear capacitance : 82 pF/m maximum
- Velocity of propagation : 243 000 km/s nominal (81% relative)
- Maximal attenuation and rated power :

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Max Rated Power (W)</th>
<th>Attenuation at 20°C (dB/100m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>2800</td>
<td>8</td>
</tr>
<tr>
<td>100</td>
<td>2000</td>
<td>11.5</td>
</tr>
<tr>
<td>400</td>
<td>1100</td>
<td>20.5</td>
</tr>
<tr>
<td>1000</td>
<td>600</td>
<td>40</td>
</tr>
<tr>
<td>5000</td>
<td>300</td>
<td>85</td>
</tr>
</tbody>
</table>
**Filotex®**

**50 Ohms Coaxial Cable, 200°C Operating Temperature**

**Applications**
- Designed for high frequency signal transmission in aircraft electrical systems

**Main characteristics**
- Operating temperature: -55°C to +200°C (Ambient + Rise)
- Operating frequency: up to 5 GHz.
- Dimensions: see construction details hereunder
- Static bend radius: 80 mm
- Dynamic bend radius: 120 mm
- Max weight: 145 g/m
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant.

**Electrical characteristics**
- See on next page

**Specifications**
- Product designed according to: prEN 4604-001, -002 and -007
- Tested according to prEN 3475.

**CONSTRUCTION**

1. **CONDUCTOR**
   - Solid silver plated copper
   - OD: 2.30 ± 0.03 mm

2. **INSULATION**
   - Expanded PTFE
   - OD: 6.20 ± 0.10 mm

3. **SHIELD**
   - 1st layer: Silver plated copper tape
   - 2nd layer: Silver plated copper braid
   - Strand diam: 0.20 mm
   - OD: 7.5 ± 0.20 mm

4. **JACKET**
   - Violet FEP
   - OD: 8.00 ± 0.20 mm
- Jacket Color identification : Black
- Cable identification : Marking text : EN WN FRF**
  FR = Country of Origin (FR = France)
  F = Manufacturer      (F = Filotex®)
  ** = Year of manufacturing (ie. 02 = 2002)

- Dielectric strength : 3000 Vac
- Operating voltage : 1000 Vac
- Insulation resistance : ≥ 1000 Mohm.km
- Characteristic impedance : 50 ± 3 Ω
- Linear capacitance : 82 pF/m maximum
- Velocity of propagation : 243 000 km/s nominal (81% relative)
- Maximal attenuation and rated power :

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Max Rated Power (W)</th>
<th>Attenuation at 20°C (dB/100m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>8000</td>
<td>3.5</td>
</tr>
<tr>
<td>100</td>
<td>5000</td>
<td>5.5</td>
</tr>
<tr>
<td>400</td>
<td>3000</td>
<td>10</td>
</tr>
<tr>
<td>1000</td>
<td>2000</td>
<td>15</td>
</tr>
<tr>
<td>5000</td>
<td>800</td>
<td>35</td>
</tr>
</tbody>
</table>
PTFE Coaxial Laser Markable Cables

Main data
- Voltage Rating: see table on this data sheet.
- Peak Temperature: 200°C.
- Operating Frequency: up to 1 Ghz.
- Bend Radius: Minimum 6 times cable O.D.
- Dimensions and high frequency characteristics: see table on this data sheet.
- Very good resistance to solvents.
- Very good resistance to soldering operations.

Applications
- For general purpose coaxial cables

Specifications
- PAN6422
- MIL-C-17
- BS2316

CONSTRUCTION
1. CONDUCTOR
   Stranded conductors: See table on this data sheet.
2. INSULATION
   Extruded PTFE
3. SHIELD
   Silver plated copper single or double braid
4. JACKET
   Polymide Tape
   UV Laser PTFE Tape(s)
   (Munsell colour limits 5YR 6/4 to 5YR 7/4)
## DIMENSIONS AND WEIGHTS (METRIC UNITS)

<table>
<thead>
<tr>
<th>FILOTEX PART NUMBER</th>
<th>MIL-C-17 PART NUMBER</th>
<th>CONDUCTOR</th>
<th>INSULATION</th>
<th>SHIELD</th>
<th>FINISHED CABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Composition (Nbr x Dia. of strand in mm)</td>
<td>Nature</td>
<td>Nom. Dia. (mm)</td>
<td>Nom. Diameter (mm)</td>
<td>Number</td>
</tr>
<tr>
<td>PAN 6422 XQ</td>
<td>M17/172-00001 (RG316/U)</td>
<td>7 x 0.1702</td>
<td>SPCCS</td>
<td>0.51</td>
<td>1.52</td>
</tr>
<tr>
<td>PAN 6422 XR</td>
<td>M17/175-00001 (RG400/U)</td>
<td>19 x 0.195</td>
<td>SPC</td>
<td>0.96</td>
<td>2.95</td>
</tr>
<tr>
<td>PAN 6422 XS</td>
<td>M17/86-00001 (RG225/U)</td>
<td>7 x 0.792</td>
<td>SPC</td>
<td>2.38</td>
<td>7.25</td>
</tr>
<tr>
<td>PAN 6422 XT</td>
<td>M17/169-00001 (RG178/U)</td>
<td>7 x 0.1016</td>
<td>SPCCS</td>
<td>0.30</td>
<td>0.82</td>
</tr>
<tr>
<td>PAN 6422 XU</td>
<td>URM107</td>
<td>7 x 0.82</td>
<td>SPC</td>
<td>2.46</td>
<td>7.25</td>
</tr>
<tr>
<td>PAN 6422 XV</td>
<td>URM108</td>
<td>1 x 1.0</td>
<td>SPC</td>
<td>1.0</td>
<td>2.95</td>
</tr>
<tr>
<td>PAN 6422 XX</td>
<td>M17/110-RG302 (RG302/U)</td>
<td>1 x 0.635</td>
<td>SPCCS</td>
<td>0.635</td>
<td>3.71</td>
</tr>
<tr>
<td>PAN 6422 XY</td>
<td>M17/94-RG179 (RG179/U)</td>
<td>7 x 0.1016</td>
<td>SPCCS</td>
<td>0.30</td>
<td>1.60</td>
</tr>
<tr>
<td>PAN 6422 XZ</td>
<td>M17/95-RG180 (RG180/U)</td>
<td>7 x 0.1016</td>
<td>SPCCS</td>
<td>0.30</td>
<td>2.59</td>
</tr>
</tbody>
</table>

SPCCS: Silver plated Copper covered Steel

## ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>FILOTEX PART NUMBER</th>
<th>MIL-C-17 PART NUMBER</th>
<th>Nominal Impedance (Ω)</th>
<th>Attenuation dB/100m at (MHz)</th>
<th>VOLTS RMS (Max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAN 6422 XQ</td>
<td>M17/172-00001 (RG316/U)</td>
<td>50</td>
<td>19.7 37.4 65.6 101.5</td>
<td>900</td>
</tr>
<tr>
<td>PAN 6422 XR</td>
<td>M17/175-00001 (RG400/U)</td>
<td>50</td>
<td>3.96 14.4 31.6 53.2</td>
<td>1400</td>
</tr>
<tr>
<td>PAN 6422 XS</td>
<td>M17/86-00001 (RG225/U)</td>
<td>50</td>
<td>1.97 6.9 14.8 25.0</td>
<td>3700</td>
</tr>
<tr>
<td>PAN 6422 XT</td>
<td>M17/169-00001 (RG178/U)</td>
<td>50</td>
<td>18.45 46.0 92.0 151.0</td>
<td>750</td>
</tr>
<tr>
<td>PAN 6422 XU</td>
<td>URM107</td>
<td>50</td>
<td>1.7 6.3 13.6 23.4</td>
<td>3500</td>
</tr>
<tr>
<td>PAN 6422 XV</td>
<td>URM108</td>
<td>50</td>
<td>3.6 13.4 29.1 46.3</td>
<td>1400</td>
</tr>
<tr>
<td>PAN 6422 XX</td>
<td>M17/110-RG302 (RG302/U)</td>
<td>75</td>
<td>2.96 10.8 26.3 42.6</td>
<td>1700</td>
</tr>
<tr>
<td>PAN 6422 XY</td>
<td>M17/94-RG179 (RG179/U)</td>
<td>75</td>
<td>17.45 32.9 52.5 79.0</td>
<td>900</td>
</tr>
<tr>
<td>PAN 6422 XZ</td>
<td>M17/95-RG180 (RG180/U)</td>
<td>95</td>
<td>3.96 14.4 31.6 53.2</td>
<td>1100</td>
</tr>
</tbody>
</table>
50 Ohms Coaxial Cable

Applications
- Avionic interconnexion.

Main data
- Voltage Rating: 600 Volts RMS
- Operating Temperature: -65°C / +200°C
- Mean Attenuation:
  - 10 MHz: 4.3 dB/100m
  - 200 MHz: 19 dB/100m
  - 400 MHz: 28 dB/100m
  - 3000 MHz: 95 dB/100m
  - 10000 MHz: 210 dB/100m
- Impedance: 50 ± 2 Ω
- Nominal capacitance: 95 pF/m
- Minimum Bend radius: 50 mm
- Good resistance to aircraft fluids
- Identification
  - Color of Jacket: Brown
  - Green marking of the external sheath: “XF FR F ***”
    - FR = Country of Origin (FR = France)
    - F = Manufacturer (F = Filotex®)
    - ** = Year of Manufacturing (ie. 02 = 2002)
- Specification: ASNE0293

CONSTRUCTION

1. CORE
   - Stranded conductor, 19 x 0.20 Silver Plated Copper

2. INSULATION
   - Extruded PTFE
   - Nom. Diam. 2.95 mm

3. SCREEN
   - Dual Silver plated copper braid.
   - Strands diam. 0.13 mm
   - Overall nom. Diam. 4.06 mm

4. FEP JACKET
   - Maximum Diameter = 5.08 mm
   - Nominal Weight = 67 g/m
FILOTEX® TYPE : NSA 935344 XE

Application
High frequency interconnections.

Electrical Characteristics
- Impedance at 200 Mhz : 50 ± 2 Ω
- Nominal capacitance : 95 pF/m
- Nominal attenuation at 900 Mhz : 0.8 dB/m
- Maximum Operating frequency : 1.8 Ghz
- Voltage rating : 900 Volts RMS.
- Maximum rating temperature : 250°C (ambient + rise)

Physical Characteristics
- Nominal weight : 18 g/m
- Marking : XE ** FR F
- ** Year of manufacturing

CONSTRUCTION

1. CONDUCTOR
7 x 0.17 mm silver plated copper covered steel.
Diameter 0.51 mm

2. INSULATION
Extruded PTFE
Diameter 1.52 ± 0.07 mm

3. SHIELD
Single braid of silver plated copper
Stand diameter 0.10 mm

4. JACKET
White PTFE tapes
Diameter 2.70 ± 0.10 mm

PRODUCT REFERENCES

NSA 935344 XE
Part 5

Data bus and high speed transmission cables
Shielded Quad
24 AWG 100 OHMS

Applications
- High speed data transmission – Ethernet networks – 100 Mbit/s and in-flight entertainment application.

Temperature rating
- Operating temperature : -55°C up to +125°C.

Identification
- Inkjet marking pitch length ≈ 300 mm.
  - Pitch length between the two text marking ≈ 150 mm
  - AB          KB 24 FR F **

Electrical characteristics:
- Loop resistance : 19.2 Ohms/100 m at 20°C (Max).
- Insulation resistance : 150 M.ohms / Km at 20°C.
- Impedance : 100 +/− 15 Ohms from 1 to 100 MHz
- Velocity of propagation : 69 %
- Next > 65 -15 x log (F) dB from 1 to 100 MHz
- Attenuation Nominal Values:
  - 2.1 dB/100 m at 1 MHz
  - 4.1 dB/100 m at 4 MHz
  - 6.5 dB/100 m at 10 MHz
  - 8.2 dB/100 m at 16 MHz
  - 9.3 dB/100 m at 20 MHz
  - 11.7 dB/100 m at 31.25 MHz
  - 17 dB/100 m at 62.5 MHz
  - 22 dB/100 m at 100 MHz

SPECIFICATION ABS 0972

CONSTRUCTION

1. 19 x 0.13 mm Silver Copper stranded 24 AWG
   FEP Insulated
   Ø = 1.40 mm
   Color : Blue-Red-Yellow-Green

2. Natural FEP Filler

3. Wrapping Tape

4. 0.10 mm Silver Copper Braid

5. Clear Blue FEP Jacket for UV laser marking
   Ø = 4.40 +/- 0.20 mm

Weight : 40.28 g/m nominal
Bus lines for multiplexed transmission

**Electrical characteristics**
- Characteristic impedance at 1 MHz: 77 ± 7 Ω
- Nominal mutual capacitance: 65 pF/m
- Nominal capacitance between 1 core and shield: 110 pF/m
- Nominal capacitance between cores and shield: 180 pF/m
- Nominal attenuation at 1 MHz: 3.5 dB/100 m
- Linear resistance: ≤ 146 ohms/Km.
- Insulation resistance: ≥1500 Mohms . Km.
- Voltage withstand:
  - between conductors: 1000 volts
  - between conductors and shield: 1000 volts
- Jacket spark test: 1000 Volts
- Voltage rating: 250 Volts
- Maximum transfer impedance (mΩ/m):
  - DC current: 50
  - 1MHz: 50
  - 10MHz: 50
  - 30 MHz: 100

**Physical characteristics**
- Nominal weight: 14.5 g/m
- Maximum weight: 19 g/m.
- Minimum static bending radius: 15 mm
- Good resistance to aircraft fluids
- Temperature rating: -65°C to +150°C
- Outer jacket color: white
- Color of cores: white, blue

**CONSTRUCTION**

1. **2 FILLERS**
   - PTFE

2. **2 CORES**
   - 1 core: AWG 26
   - Cross section: 0.15 mm²
   - 19 x 0.10 Silver plated copper alloy (EN2083)
   - Insulation: extruded PTFE
   - Diameter = 0.80 ± 0.05 mm

3. **LAY UP**
   - Nominal diameter: 1.60 mm

4. **SHIELD**
   - Silver plated copper 10/100
   - Diameter < 2.00 mm

5. **JACKET**
   - UV laser markable ETFE
   - OD 2.50 ± 0.10 mm
**Marking**

- “FILOTEX FRANCE ET 124960-**””
  (** = Year of manufacturing
- Red marking for the main line
  (Nexans reference: ETUDE 124960-01)
- Blue marking for the branch line
  (Nexans reference: ETUDE 124960-02)

**Technical requirements and control conditions:** according to pr EN 3375
Bus lines for multiplexed transmission

Electrical characteristics
- Characteristic impedance at 1 MHz: 77 ± 7 Ω
- Nominal mutual capacitance: 65 pF/m
- Nominal capacitance between 1 core and shield: 110 pF/m
- Nominal capacitance between cores and shield: 180 pF/m
- Nominal attenuation at 1 MHz: 2.7 dB/100 m
- Linear resistance: ≤ 109 ohms/Km.
- Insulation resistance: ≥1500 Mohms · Km.
- Voltage withstand:
  - between conductors: 1000 volts
  - between conductors and shield: 1000 volts
- Jacket spark test: 1000 Volts
- Voltage rating: 250 Volts
- Maximum transfer impedance (Ω/m):
  - DC current: $15 \cdot 10^{-3}$
  - 1MHz: $5 \cdot 10^{-3}$
  - 10MHz: $5 \cdot 10^{-3}$
  - 30 MHz: $10 \cdot 10^{-3}$

Physical characteristics
- Nominal weight: 28 g/m
- Maximum weight: 37 g/m.
- Minimum static bending radius: 20 mm
- Good resistance to aircraft fluids
- Temperature rating: -65°C to +150°C
- Outer jacket color: white
- Color of cores: white, blue

CONSTRUCTION

1. 2 FILLERS
   PTFE

2. 2 CORES
   1 core: AWG 24
   Cross section: 0.21 mm²
   19 x 0.12 Silver plated copper alloy (EN2083)
   Insulation: extruded PTFE
   Diameter = 1.05 ± 0.10 mm

3. LAY UP
   Nominal diameter: 2.10 mm

4. SHIELD
   Silver plated copper 10/100

5. SHIELD
   Silver plated copper 10/100
   Diameter < 3.50 mm

6. JACKET
   UV laser markable ETFE
   OD 3.65 ± 0.25 mm
Marking

- “FILOTEX FRANCE ET 124961-**”
  (** = Year of manufacturing
- Red marking for the main line
  (EN 3375 – 004 C01, Nexans reference: ETUDE 124961-01)
- Blue marking for the branch line
  (EN 3375 – 004 C02, Nexans reference: ETUDE 124961-02)

Technical requirements and control conditions: according to pr EN 3375
Bus lines for multiplexed transmission
Use for Bus System MIL STD 1553

Electrical characteristics
- Characteristic impedance at 1 MHz: 77 ± 7 Ω
- Nominal mutual capacitance: 65 pF/m
- Nominal capacitance between 1 core and shield: 110 pF/m
- Nominal capacitance between cores and shield: 180 pF/m
- Nominal attenuation at 1 MHz: 2.7 dB/100 m
- Linear resistance: ≤ 109 ohms/Km.
- Insulation resistance: ≥1500 Mohms . Km.
- Voltage withstandings:
  - between conductors: 1000 volts
  - between conductors and shield: 1000 volts
- Jacket spark test: 1000 Volts
- Voltage rating: 250 Volts
- Maximum transfer impedance (Ω/m):
  - DC current: 15 . 10^-3
  - 1 MHz: 5 . 10^-3
  - 10 MHz: 5 . 10^-3
  - 30 MHz: 10 . 10^-3

Physical characteristics
- Nominal weight: 28 g/m
- Maximum weight: 37 g/m.
- Minimum static bending radius: 20 mm
- Good resistance to aircraft fluids
- Temperature rating: -65°C to +150°C
- Outer jacket color: white
- Color of cores: white, blue

CONSTRUCTION

1. 2 FILLERS
   - PTFE

2. 2 CORES
   - 1 core: AWG 24
     Cross section: 0.21 mm²
     19 x 0.12 Silver plated copper alloy (EN2083)
     Insulation: extruded PTFE
     Diameter = 1.05 ± 0.10 mm

3. LAY UP
   - Nominal diameter: 2.10 mm

4. SHIELD
   - Tin plated copper 10/100

5. SHIELD
   - Tin plated copper 10/100
   - Diameter < 3.50 mm

6. JACKET
   - FEP Jacket
   - OD: 3.65 ± 0.25 mm
Marking

- “FILOTEX FRANCE ET 96770-**”
  (** = Year of manufacturing
- Red marking for the main line
  (EN 3375 – 004 B01, Nexans reference: ETUDE 96770-01)
- Blue marking for the branch line
  (EN 3375 – 004 B02, Nexans reference: ETUDE 96770-02)

**Technical requirements and control conditions:** according to pr EN 3375
CABLE, SPECIAL ELECTRIC
(MIL-STD-1553B DATA BUS)

Physical Characteristics
- Operating Temperature: -65°C to +150°C
- Maximal weight: 29 Kg./Km.
- Good resistance to aircraft fluids

Electrical Characteristics
- Voltage Rating: 600 Volts RMS.

Characteristics Impedance
- 77Ω ± 3Ω

Mutual Capacitance
- 98.4 pF/m

Attenuation
- 4.92 dB/100m. Max.

Identification
- Color of cores: Red, Blue
- Color of Jacket: Blue
- Black Marking of the external sheath: “PAN 6421 ZA 002 FR F ***”
- ** = Year of manufacturing

Specification: PANAVIA 75.6421
SP-P-99301-00-P

CONSTRUCTION

1. CORES:
   - Stranded conductor: 19 x 0.118 Silver plated copper Alloy
   - Insulation Polyimide/FEP Tape plus dispersion
   - Diameter = 1.22 mm
   - Maxi = 1.26 mm

2. P.T.F.E. fillers

3. Inner screen: 0.08 mm Silver plated copper (Braid)

4. Outer screen: 0.08 mm Silver plated copper (Braid)

5. Extruded FEP Jacket
   - 0.20 mm Minimum Wall Thickness
   - Diameter min. = 3.15 mm
   - Diameter max. = 3.80 mm
   - Max. Weight = 29.0 g/m

PRODUCT REFERENCES

PAN 6421 ZA 002
ET 65529

Passing on or copying of the document, use or communicate of its content is not permitted without prior written authorization. Information subject to change without notice.
BUS CABLE
AWG 24 - Single braid - Polyimide Jacket

**Characteristics**
- Voltage Rating: 600 Volts RMS
- Operating Temperature: -55°C to +150°C
- Good Resistance to aircraft fluids.
- Non flammable.
- Nominal weight: 27 g/m

**Characteristics impedance**
- 125 Ω ±10%

**Construction**

1. **Cores**
   - 2 twisted cores AWG 24:
     - Stranded conductor: 19 x 0.12 mm Silver plated high strength copper alloy
     - Extruded PTFE
     - Ø 1.97 ± 0.03 mm

2. **Shield**
   - 0.10 mm Nickel plated copper braid
   - Covering ≥ 62%

3. **Jacket**
   - Polyimide tape(s)
   - Maxi. Diameter = 4.50 mm

**Electrical characteristics**
- Attenuation at 500 KHz: 2.5 dB/100m
- Attenuation at 1 MHz: 3.1 dB/100m
- Mutual capacitance: 40 pF/m

**Identification**
- 1 core white and 1 core brown
- Natural jacket

**Specification**: ASNE0259
Twinaxial Cable High immunity

Applications
- General Electronic Wiring.

Main data
- Voltage Rating: 600 Volts RMS
- Low Operating Temperature: -65°C
- High Operating Temperature: +200°C
- Transfer Impedance:
  - DC: $28.10^{-3} \, \Omega/m$
  - 10 kHz: $8.7.10^{-3} \, \Omega/m$
  - 100 kHz: $0.85.10^{-3} \, \Omega/m$
  - 2 MHz: $0.8.10^{-5} \, \Omega/m$

- Impedance max.: 75Ω
- Minimum Bend radius: 30 mm
- Good resistance to aircraft fluids

Identification
- Color of cores: Light Blue, Red
- Color of Jacket: White
  - Black marking of the external sheath: “HJ 26 FR F ***”
  - FR = Country of Origin (FR = France)
  - F = Manufacturer (F = Filotex®)
  - *** = Year of Manufacturing (ie. 02 = 2002)

Specification: ASNE0849

CONSTRUCTION

1. **2 CORES**
   - Stranded conductors: 19 x 0.100 Nickel Plated High Strength Copper Alloy
   - Insulation: Polyimide tape(s)
   - PTFE Topcoat
   - Dia. max. = 0.84 mm

2. **SCREEN**
   - 0.08 mm Nickel plated copper braid.
   - High immunity Tapes
     - Nominal dia. = 2.06 mm
   - 0.10 mm Nickel plated copper braid.
     - Nominal dia. = 2.50 mm

3. **JACKET**
   - FEP
     - Maximum Diameter = 3 mm
     - Maximum Weight = 22 g/m
Bus lines for multiplexed transmission

**Electrical characteristics**
- Characteristic impedance: $75 \pm 5 \ \Omega$
- Nominal mutual capacitance: $65 \pm 5 \ \text{pF/m}$
- Capacitance unbalance: $\leq 5\%$
- Nominal attenuation at 1 MHz: $2.6 \ \text{dB/100 m}$
  - at 10 MHz: $10 \ \text{dB/100 m}$
- Linear resistance: $\leq 50.2 \ \text{ohms/Km}$
- Insulation resistance under 500 volts: $> 5000 \ \text{Mohms} \ . \ \text{Km}$.
- Voltage withstandining:
  - between conductors: $2000 \ \text{volts RMS}$
  - between conductors and shield: $2000 \ \text{volts RMS}$
- Jacket spark test: 500 Volts
- Voltage rating: 600 Volts
- Transfer impedance ($\Omega$/m):
  - at 1 MHz: $2.5 \times 10^{-5}$

**Physical characteristics**
- Nominal weight: $55 \ \text{g/m}$
- Maximum weight: $55.4 \ \text{g/m}$.
- Good resistance to aircraft fluids
- Temperature rating: $-65^\circ \text{C} \ \text{to} \ +200^\circ \text{C}$
- Outer jacket color: white
- Color of cores: white, blue

**Product references**

**CONSTRUCTION**

1. **2 FILLERS**
   - PTFE

2. **2 CORES**
   - 1 core: AWG 22
     - Cross section: $0.38 \ \text{mm}^2$
     - $19 \times 0.16$ Silver plated copper
   - Insulation: extruded PTFE
     - Diameter = $1.50 \pm 0.03 \ \text{mm}$
   - Layup:
     - Nominal diameter: $3.00 \ \text{mm}$

3. **SHELL**
   - Silver plated copper 12/100

4. **TAPE**
   - High permeability alloy

5. **SHELL**
   - Silver plated copper 12/100
   - Nominal diameter: $4.06 \ \text{mm}$

6. **JACKET**
   - Polymide PTFE
   - OD = $4.55 \pm 0.25 \ \text{mm}$

These cables are approved by the Defense Ministry under letters:

N°8981/STTE/CTG (10-09-86)

Registered at the B.N.Aé : N° 6415 401
Bus lines for multiplexed transmission
Use for Bus system MIL STD 1553

Electrical characteristics
- Characteristic impedance at 1 MHz: 77 ± 7 Ω
- Nominal mutual capacitance: 65 pF/m
- Nominal capacitance between 1 core and shield: 110 pF/m
- Nominal capacitance between cores and shield: 180 pF/m
- Nominal attenuation at 1 MHz: 3.5 dB/100 m
- Linear resistance: ≤ 146 ohms/Km.
- Insulation resistance: ≥1500 Mohms . Km.
- Voltage withstanding:
  - between conductors: 1000 volts
  - between conductors and shield: 1000 volts
- Jacket spark test: 1000 Volts
- Voltage rating: 250 Volts
- Maximum transfer impedance (mΩ/m):
  - DC current : 50 10^{-3}
  - 1MHz : 50 10^{-3}
  - 10MHz : 50 10^{-3}
  - 30 MHz : 100 10^{-3}

Physical characteristics
- Nominal weight: 14.5 g/m
- Maximum weight: 19 g/m.
- Minimum static bending radius: 15 mm
- Good resistance to aircraft fluids
- Temperature rating: -65°C to +200°C
- Outer jacket color: white
- Color of cores: white, blue

Specification: ASNE 0811
Marking

- “FIOTEX FRANCE ET 69899-**””
  (**) = Year of manufacturing
- Red marking for the main line
  (Nexans reference: ETUDE 69899-01)
- Blue marking for the branch line
  (Nexans reference: ETUDE 69899-02)
**Applications**

- Data bus cable.

**Main data**

- Voltage rating: 1600 vrms.
- Operating temperature: -55°C/+200°C
- Minimum bend radius: 25 mm.
- Characteristic impedance: 100 ± 10 Ohms at 5 MHz.
- Attenuation at 1 MHz: 0.03 dB/m.
  - at 5 MHz: 0.06 dB/m.
  - at 10 MHz: 0.12 dB/m
- Maximum capacitance: 60 pF/m
- Dimensions and weight: see table on reverse of this data sheet.

**Identification**

- 1 core: Light blue with green marking ‘WF 24 FR F ***’
- 1 core: Red with white marking ‘WF 24 FR F ***’
- Amber color jacket: (Marking tape under jacket)
- Marking: ‘WF 24 FR F ***’ + dash. (** = Year code.)

---

**CONSTRUCTION**

1. **CORES**
   - 2 Cores
   - 19 x 0.12 mm Nickel coated copper.
   - PTFE insulation.

2. **SCREEN**
   - Nickel coated copper braid (Ø 0.08 mm)

3. **JACKET**
   - Polyimide tapes

4. **Fiber glass fillers**

---

**PRODUCT REFERENCES**

ABS 0386 WF
ET 96897
### DIMENSIONS AND WEIGHT

<table>
<thead>
<tr>
<th>Reference</th>
<th>FILOTEX</th>
<th><strong>US</strong></th>
<th><strong>Composition</strong></th>
<th><strong>Diameter</strong> (mm)</th>
<th><strong>Ohmic resistance at 20°C</strong> (Ohms/Km)</th>
<th><strong>Diameter</strong> (mm)</th>
<th>Braid</th>
<th><strong>Finish cable</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>(N x mm)</strong></td>
<td><strong>(mm)</strong></td>
<td><strong>(mm)</strong></td>
<td><strong>Ø strand</strong> (mm)</td>
<td><strong>Ø Nom.</strong> (mm)</td>
<td><strong>Overall diameter</strong> (mm)</td>
<td><strong>Weight</strong> (Kg/Km)</td>
</tr>
<tr>
<td>Study. 96897</td>
<td>24</td>
<td>19 x 0.12</td>
<td>0.59</td>
<td>117.5</td>
<td>1.40</td>
<td>1.50</td>
<td>0.08</td>
<td>3.12</td>
</tr>
</tbody>
</table>
BUS PAIR, High temperature

Applications
- General Electronic Wiring.
- Communication Data Bus, compatible RS 422

Main data
- Voltage Rating: 600 Volts RMS
- Low Operating Temperature: -55°C
- High Operating Temperature: +200°C
- Minimum Bend radius: 30 mm
- Good resistance to aircraft fluids
- Maximum Weight = 15 g/m

Electrical data
- Impedance: \((78 \pm 7) \, \Omega \) @ 200 MHz
- Linecapacitance (nom): 64 pF/m
- Linear attenuation (max):
  - 0.035 dB/m @ 1 MHz
  - 0.15 dB/m @ 10 MHz

Identification
- Color of cores: Light Blue, Red
- Color of Jacket: Natural
  - Marking: “XM 24 *-F”
  - FR = Country of Origin (FR = France)
  - F = Manufacturer (F = Filotex®)
  - * = Year of Manufacturing Code (ie. 02 = 2002)

Specification: ASNE0290
Bus lines for multiplexed transmission
Use for Bus System MIL STD 1553

Electrical characteristics
- Characteristic impedance at 1 MHz: 77 ± 7 Ω
- Nominal mutual capacitance: 65 pF/m
- Nominal capacitance between 1 core and shield: 110 pF/m
- Nominal capacitance between cores and shield: 180 pF/m
- Nominal attenuation at 1 MHz: 2.7 dB/100 m
- Linear resistance: ≤ 109 ohms/Km.
- Insulation resistance: ≥1500 Mohms . Km.
- Voltage withstanding:
  between conductors: 1000 volts
  between conductors and shield: 1000 volts
- Jacket spark test: 1000 Volts
- Voltage rating: 250 Volts
- Maximum transfer impedance (Ω/m):
  DC current: 15 . 10^{-3}
  1MHz: 5 . 10^{-3}
  10MHz: 5 . 10^{-3}
  30 MHz: 10 . 10^{-3}

Physical characteristics
- Nominal weight: 28 g/m
- Maximum weight: 37 g/m.
- Minimum static bending radius: 20 mm
- Good resistance to aircraft fluids
- Temperature rating: -65°C to +200°C
- Outer jacket color: white
- Color of cores: white, blue
Marking

- “FILOTEX FRANCE ET 69794-**”
  (** = Year of manufacturing
- Red marking for the main line
  (EN 3375 – 004 C01, Nexans reference: ETUDE 69794-01)
- Blue marking for the branch line
  (EN 3375 – 004 C02, Nexans reference: ETUDE 69794-02)

Technical requirements and control conditions: according to pr EN 3375
Fireproof Cable
Two-cores Twisted Screened and Jacketed
Gauge 24 for data transmission

Applications
- Use in the onboard electrical systems of aircraft.

Electrical Characteristics
- Temperature rating: -65°C /+260°C (Ambient. + Rise.)
- Voltage Rating: 600 Volts rms
- Operating frequency: up to 125 KHz.
- Dimensions and weights: see table on this data sheet.
- Fire resistance – 15 mn: > 50 kΩ.
- Very good resistance to Aircraft Fluids.
- Capacitance: < 85 pF/m at 100 KHz
- Impedance: 120 ± 20% Ω at 100 KHz
- Transfer impedance: < 30 mΩ at 100 KHz
- Attenuation: < 1.6 dB/100 m at 100 KHz

Identification
- Core identification Colours:
  - Two cores: White with a helical red / blue stripe
  - Marking Wording: EN DW A ++ FRF**
- Jacket identification colour: White with narrow red stripe
  - Marking Wording: EN xxx ++ FRF**
  - With: xxx type code TBD
  - ++ = AWG Wire Size
  - FR = Country of Origin (FR = France)
  - F = Manufacturer (F = Filotex®)
  - ** = Year of Manufacturing (ie. 03 = 2003)

Specification: EN 4608-005
### Dimensions and Weights

<table>
<thead>
<tr>
<th>REFERENCE</th>
<th>Size Code</th>
<th>AWG</th>
<th>No of cores</th>
<th>DC Resistance at 20°C (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 4608-005B 002</td>
<td>002</td>
<td>24</td>
<td>2</td>
<td>135</td>
<td>4.00</td>
<td>27.5</td>
</tr>
</tbody>
</table>
Part 6

Special cables
Low Noise Screened Pair Cable
Transmission Cable 260 °C

Applications
- General Electronic Wiring.

Main data
- Voltage Rating: 600 Volts RMS
- Operating Temperature: -54 to +260°C
- Voltage withstanding: Insulation : 2000 V RMS
  - Jacket : 5000 V Impulse
- Insulation resistance: > 10¹² Ω.m (Core/Core and Core/Screen)
- Capacitance 100 Pf/m (between cores)
  200 Pf/m (between core and screen)
- Triboelectrical noise
  - from 30 to 90 Hz, displacement 2 mm pk-pk : < 0.15 pC
  - from 20 to 50 Hz, displacement 5 mm pk-pk : < 1 pC
  - at 2 Hz, displacement 40 mm pk-pk : < 10 pC
- Excellent chemical resistance
- Nominal weight: 68.9 g/m

Identification
- Color of cores: Red, Blue
- Color of Jacket: Black

CONSTRUCTION
1. 2 CORES:
   - Stranded conductor: 19 x 0.203 Nickel plated copper alloy (PD 135)
   - Insulation: Extruded PTFE
   - Semi-conductive tape
   - Diameter = 1.78 mm
2. GLASS FIBER FILLERS
3. SEMI-CONDUCTIVE TAPE
   - Diameter = 3.74 mm
4. SHIELD
   - 0.12 mm Nickel plated copper braid
   - 91% (US) minimum coverage
   - Diameter = 4.22 mm
   - INNER JACKET
5. Polymide tape(s)
   - 51% minimum overlap
6. SHIELD
   - 0.12 mm Nickel plated copper braid
   - 91% (US) minimum coverage
   - Diameter = 4.83 mm
7. OUTER JACKET
   - Polymide tape(s)
   - PTFE tape(s)
   - 51% minimum overlap
   - OD = 5.20 ± 0.20 mm

PRODUCT REFERENCES
FILOTEX Ref: ET 124401

STUDY 124401
Low noise transmission cable 260°C

**Characteristics:**
- Operating temperature: -55 to +260°C
- Operating voltage: 600 V AC
- Voltage withstanding:
  - between cores: 1500 V AC
  - between cores and shield: 1500 V AC
- Insulation resistance: \( \geq 1000 \, \text{M} \Omega \cdot \text{Km} \)
- Capacitance:
  - 100 pF/m (between cores): \( \leq 200 \, \text{pF/m} \)
  - 200 pF/m (between cores and shield)
- Triboelectrical noise:
  - 2 Hz, 40 mm pk-pk: \( \leq 10 \, \text{pC} \)
  - 5 to 50 Hz, 5 mm pk-pk: \( \leq 1 \, \text{pC} \)
  - 10 Hz to 70 Hz, 2 mm pk-pk: \( \leq 0.15 \, \text{pC} \)
- Nominal weight: 38.2 g/m
- Identification: 1 core Red - 1 core blue
- White jacket

**CONSTRUCTION**

1. 2 CORES
   CONDUCTOR
   19 x 0.17 mm
   Silver plated copper clad steel
   INSULATION
   Extruded PTFE 1.40 ± 0.05 mm
   Semi-conductor tape
   Diameter 1.58 mm nom.
2. GLASS FIBER FILLERS
3. SEMI-CONDUCTOR TAPE
4. SHIELD
   Nickel plated copper Ø 0.12 mm
   Kr > 70%
5. JACKET
   Polymide tape(s)
   PTFE tape(s)
   OD max 4.35 mm
MBBN 3320 YH +++
STUDY 96532 / STUDY 96533

Cable electric, Nickel chromium/Nickel aluminium Jacketed, Shielded Twisted pair

**Electrical Characteristics**
- Voltage rating: 600 Volts RMS

**Thermal Characteristics**
- Temperature rating: -55°C / + 260°C

**Properties**
- Resistant to fungus and to fluids used on board
- Flame resistant
- EMF: 10.56 ± 0.12 mV at +260°C

**Identification**
- Conductor Nickel Chromium: White
- Conductor Nickel Aluminium: Green
- Jacket: Green (Size 006)

- Marking: Colour: Black
- Wording: MBBN 3320 YH +++ FR F **
  
  +++ = Code for Nominal Section
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex®)
  ** = Year of Manufacturing (ie.00 = 2000)

**Specifications**
- MBBN 3320
- prEN 4049
### DIMENSIONS AND WEIGHT

<table>
<thead>
<tr>
<th>Code for Nominal section</th>
<th>US AWG</th>
<th>CONDUCTORS</th>
<th>CORES</th>
<th>SCREEN</th>
<th>OHMIC RESISTANCE At 20°C</th>
<th>FINISHED CABLES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Construction</td>
<td>Nominal Diameter</td>
<td>Maximal Diameter</td>
<td>Strands Diameter</td>
<td>Nickel Chromium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>n x mm</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(Ω/m)</td>
</tr>
<tr>
<td>004</td>
<td>22</td>
<td>19 x 0.15</td>
<td>0.75</td>
<td>1.45</td>
<td>0.12</td>
<td>1.99</td>
</tr>
<tr>
<td>006</td>
<td>20</td>
<td>19 x 0.20</td>
<td>1.00</td>
<td>1.67</td>
<td>0.12</td>
<td>1.12</td>
</tr>
</tbody>
</table>
Filotex® Type ASNE0409
ASNE0410
ASNE0411
ASNE0412

Shielded and Sheathed single and multicore
UV Laser printable

Applications
- Designed for Flight Testing Wiring.

Main data
- Operating temperature: -55°C to +200°C (Ambiant + Rise)
- Voltage rating: 600 Volts RMS.
- Operating frequency: up to 2500 Hz.
- Dimensions and weights: See tables on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant
- Solderability test on conductors: according to ASNE0243

Identification
- Cores and Sheath Colours: See Table on this Data Sheet
- Marking:
  - Colour: White on Red and Black wires
  - Dark Green on other colours.
  - Wording:
    - On Cores: BG** FRF++
    - On Sheaths: $$** £ FRF++
  - With: $$ = ASNE Type (SU, TV or VF)
  - ** = AWG Wire Size
  - £ = Topcoat Code (U or None)
  - FR = Country of Origin (FR = France)
  - F = Manufacturer (F = Filotex®)
  - ++ = Year of Manufacturing (ie. 01 = 2001)

Specifications
- ASNE0409, ASNE0410, ASNE0411, ASNE0412, ASNE0243
- NSA 935000, SDF/B67-04/A/108/1128

Filotex® ASNE0409 - ASNE0410 - ASNE0411 - ASNE0412

CONSTRUCTION

CORES (ASNE0409)
- Conductor: 19 x 0.120 Nickel plated copper
  (Suitable for solderability)
- Insulation: PTFE tape

ASSEMBLY (2 and 4 cores)
- PTFE tape

SHIELD
- Nickel Plated Copper Spinning

SHEATH
- 1 Polyimide Tape
- 1 Orange PTFE UV Tape

NUMBER OF CORES
- ASNE0410: 1
- ASNE0411: 2
- ASNE0412: 4
### DIMENSIONS AND WEIGHTS (METRIC UNITS)

<table>
<thead>
<tr>
<th>Nexans Filotex® PART NUMBER</th>
<th>Nbr of Cores</th>
<th>Dia. of strand (mm)</th>
<th>Colours</th>
<th>Maximum DC Resistance at 20°C (68°F) (Ohms/Km)</th>
<th>Diameter (mm)</th>
<th>Maximum Weight (g/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cores</td>
<td>Sheath</td>
<td>Nom.</td>
<td>Max.</td>
</tr>
<tr>
<td>ASNE0409 BG 24 UV</td>
<td>1</td>
<td>-</td>
<td>Orange</td>
<td>-</td>
<td>0.86</td>
<td>0.97 1.02</td>
</tr>
<tr>
<td>ASNE0410 SU 24 UV</td>
<td>1</td>
<td>0.08</td>
<td>White</td>
<td>Orange</td>
<td>-</td>
<td>1.42 1.50</td>
</tr>
<tr>
<td>ASNE0411 TV 24 UV</td>
<td>2</td>
<td>0.08</td>
<td>White + Light Blue</td>
<td>Orange</td>
<td>94</td>
<td>2.54 2.70</td>
</tr>
<tr>
<td>ASNE0412 VF 24 UV</td>
<td>4</td>
<td>0.10</td>
<td>White + Light Blue + Red + Black</td>
<td>Orange</td>
<td>94</td>
<td>2.99 3.10</td>
</tr>
</tbody>
</table>
Part 7

Optical cable
Multimode Fibre Optic Cable 62.5/125

Main data

- Operating temperature:
  - Long term: -55 to +125°C
  - Peak: -65 to +150°C

- Maximum pulling force:
  - Long term: 10 daN
  - Short term: 25 daN

- Tensile strength: > 100 daN

- Nominal weight: < 4 kg/km

- Minimum bend radius:
  - Storage: > 40 mm
  - Long term: > 20 mm
  - Short term (installation): > 12 mm

- Minimum bend radius:
  - Storage: > 40 mm
  - Long term: > 20 mm
  - Short term (installation): > 12 mm

- Maximum attenuation at 20°C:
  - at 850 nm: 4 dB/km
  - at 1310 nm: 2 dB/km

- Effective index of refraction:
  - at 850 nm: 1.4970
  - at 1300 nm: 1.4919

- Numerical aperture: 0.275 ± 0.015

- Cable Bandwidth (MHz km):
  - at 850 nm: > 400
  - at 1310 nm: > 1000

Spécifications

- ABS0963-003
Connection:

Stripping of primary jacket, buffer and coating.

If mechanical stripping is used, we highly recommend:
- To strip directly from primary jacket to silica
- To carefully clean silica with a solvent such as MEK (Methylethylketone).

Residues of silicone can be removed with a wet tissue by wiping off of different angles in order to clean all the circumference of the silica.

If you dip bare fibre into solvent, take care to avoid contact between solvent and other part of the cable such as strength members, silicone and jacket.

Advantages
- Small diameter
- Low weight
- Good chemical resistance
- Good mechanical resistance
- Flame retardant
- Flammability: non flammable
- Smoke density and toxicity (According to ABD0031 chart1)

<table>
<thead>
<tr>
<th>PARAMETERS</th>
<th>With Flame</th>
<th>Without Flame</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Requested</td>
<td>Requested</td>
</tr>
<tr>
<td>Dm 4 mn</td>
<td>≤ 200</td>
<td>≤ 200</td>
</tr>
<tr>
<td>Dm 16 mn (for information)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>TOXICITY at 4 mn</td>
<td>HF</td>
<td>≤ 100</td>
</tr>
<tr>
<td></td>
<td>HCL</td>
<td>≤ 150</td>
</tr>
<tr>
<td></td>
<td>HCN</td>
<td>≤ 150</td>
</tr>
<tr>
<td></td>
<td>SO₂/H₂S</td>
<td>≤ 100</td>
</tr>
<tr>
<td></td>
<td>NO/NO₂</td>
<td>≤ 100</td>
</tr>
<tr>
<td></td>
<td>CO</td>
<td>≤ 1000</td>
</tr>
<tr>
<td>TOXICITY at 16 mn</td>
<td>HF</td>
<td>≤ 100</td>
</tr>
<tr>
<td></td>
<td>HCL</td>
<td>≤ 150</td>
</tr>
<tr>
<td></td>
<td>HCN</td>
<td>≤ 150</td>
</tr>
<tr>
<td></td>
<td>SO₂/H₂S</td>
<td>≤ 100</td>
</tr>
<tr>
<td></td>
<td>NO/NO₂</td>
<td>≤ 100</td>
</tr>
<tr>
<td></td>
<td>CO</td>
<td>≤ 1000</td>
</tr>
<tr>
<td>PARAMETER and Measurement norm</td>
<td>TEST Description and Remarks</td>
<td>RESULTS **</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td><strong>Core Diameter</strong></td>
<td>ANSI/EIA/TI – A455-58 A</td>
<td>62.5 ± 3 µm</td>
</tr>
<tr>
<td><strong>Cladding Diameter</strong></td>
<td>ANSI/EIA/TI – A 455-45 B</td>
<td>125 ± 2 µm</td>
</tr>
<tr>
<td><strong>Core « non » circularity</strong></td>
<td>ANSI/EIA/TI – A 455-45 B</td>
<td>≤ 5% (3µm)</td>
</tr>
<tr>
<td><strong>Concentricity error</strong></td>
<td>ANSI/EIA/TI – A 455-45 B</td>
<td>3 µm</td>
</tr>
<tr>
<td><strong>Numerical aperture</strong></td>
<td>ANSI/EIA/TI – EIA 455-177A</td>
<td>0.275 ± 0.015</td>
</tr>
<tr>
<td><strong>Cladding non circularity</strong></td>
<td>ANSI / EIA / TIA 455-44B</td>
<td>≤ 2% (2.5 µm)</td>
</tr>
<tr>
<td><strong>Index of refraction</strong></td>
<td>ANSI/EIA/TIA 455/44B</td>
<td>1.4970 at 850 nm</td>
</tr>
<tr>
<td><strong>Fibre bandwidth</strong></td>
<td>ANSI/EIA/TI – EIA 455-30B</td>
<td>Tests performed on a 1300 m length</td>
</tr>
<tr>
<td><strong>Primary Jacket</strong></td>
<td>ANSI/EIA/TI – A 455-55B</td>
<td>900 ± 50 µm</td>
</tr>
<tr>
<td><strong>Outer Diameter</strong></td>
<td>ANSI/EIA/TI – 455-55C</td>
<td>1.80 ± 0.1 mm</td>
</tr>
<tr>
<td><strong>Cable Stability</strong></td>
<td>EN 3745 – 205</td>
<td>Silica versus primary jacket Primary jacket versus outer jacket (2 m and 20 m)</td>
</tr>
<tr>
<td><strong>Attenuation</strong></td>
<td>EIA 455-53B</td>
<td>At 850 nm &lt; 4 dB/km</td>
</tr>
<tr>
<td><strong>Discontinuity</strong></td>
<td>EIA 455-59</td>
<td>Discontinuity &lt; 0.2 dB/db/point</td>
</tr>
<tr>
<td><strong>Ambient light coupling</strong></td>
<td>EN 3745 – 305</td>
<td>(20 m) solar spectrum (6000 K) 86400 Lux</td>
</tr>
<tr>
<td><strong>Cable attenuation variation during temperature cycling</strong></td>
<td>EN 3745 306</td>
<td>5 cycles according to EN 3745 – 402 (20 m)</td>
</tr>
<tr>
<td><strong>Accelerated ageing</strong></td>
<td>EN 3745 – 401</td>
<td>(100 m) Ø mandrel : 250 mm 168h at 125°C</td>
</tr>
<tr>
<td><strong>Cable temperature cycling</strong></td>
<td>EN 3745 – 402 definition</td>
<td>High temp. 125°C Low temp. –55°C Duration of high &amp; low temp. 30mn Rate of change : 5°C (20 m)</td>
</tr>
<tr>
<td><strong>Thermal shock</strong></td>
<td>EN 3745 – 404</td>
<td>4 cycles 125°C/30mn -55°C/30mn 20°C (20 m)</td>
</tr>
<tr>
<td>PARAMETER and Measurement norm</td>
<td>TEST Description and Remarks</td>
<td>RESULTS **</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>--------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td><strong>Cable cold bend test</strong>&lt;br&gt;EN 3745 – 406</td>
<td>Ø mandrel : 40 mm&lt;br&gt;10 turns (2 m)&lt;br&gt;2 cycles 20°C / -55°C&lt;br&gt;2 windings and unwindings at -55°C</td>
<td>During test : $\Delta \alpha$ max &lt; 0.6 dB**&lt;br&gt;After 24 h : &lt; 0.1 dB**</td>
</tr>
<tr>
<td><strong>Flammability</strong>&lt;br&gt;EN 3745 – 407</td>
<td>0s</td>
<td>Passed</td>
</tr>
<tr>
<td><strong>Life time</strong>&lt;br&gt;EN 3745 – 410</td>
<td>(100 m)</td>
<td>&gt; 1000 h at 125 °C</td>
</tr>
<tr>
<td><strong>Resistance to fluids</strong>&lt;br&gt;EN 3745 – 411</td>
<td>Fluids according to EN 3909</td>
<td>Weight variation &lt; 5%&lt;br&gt;No cracks, no colour change&lt;br&gt;Good printing legibility</td>
</tr>
<tr>
<td><strong>Humidity resistance</strong>&lt;br&gt;EN 3745 – 412</td>
<td>15 cycles&lt;br&gt; &gt; 95% R.H. (20 m)</td>
<td>Passed</td>
</tr>
<tr>
<td><strong>Fibre proof test</strong>&lt;br&gt;EN 3745 – 501</td>
<td>1%/1seconde&lt;br&gt;exceed 100 KPSI</td>
<td>Passed</td>
</tr>
<tr>
<td><strong>Scrape abrasion</strong>&lt;br&gt;EN 3745 – 503</td>
<td>Ø needle : 0.5 mm&lt;br&gt;Load : 10N&lt;br&gt;100 cycles</td>
<td>$\Delta \alpha$&lt;0.1 dB** at 1310 nm during test</td>
</tr>
<tr>
<td><strong>Micro-bending</strong>&lt;br&gt;EN 3745 – 504</td>
<td>Ø mandrel : 20 mm&lt;br&gt;Load : 150 N</td>
<td>$\Delta \alpha$&lt;0.2 dB** at 1310 nm during test&lt;br&gt;15 mn after test,&lt;br&gt;Residual attenuation = 0 dB</td>
</tr>
<tr>
<td><strong>Cable tensile strength</strong>&lt;br&gt;EN 3745 – 505</td>
<td></td>
<td>Cable breakage &gt; 1100N&lt;br&gt;$\Delta \alpha$ &lt; 0.2 dB** for 150 N load</td>
</tr>
<tr>
<td><strong>Cable impact test</strong>&lt;br&gt;EN 3745 – 506</td>
<td>Energy : 5 J&lt;br&gt;Anvil radius : 15 mm</td>
<td>After 5 impacts&lt;br&gt;$\Delta \alpha$ &lt; 0.1 dB**</td>
</tr>
<tr>
<td><strong>Cable Cut-through</strong>&lt;br&gt;EN 3745 – 507</td>
<td>Load 20N / 1 mm</td>
<td>During test $\Delta \alpha$&lt; 0.3 dB**&lt;br&gt;After test $\Delta \alpha$ = 0 dB**&lt;br&gt;No insulation degradation&lt;br&gt;No fibre breakage</td>
</tr>
<tr>
<td><strong>Torsion test</strong>&lt;br&gt;EN 3745 – 508</td>
<td>Cable tension load : 10 N&lt;br&gt;Length under torsion = 250 mm&lt;br&gt;1000 cycles</td>
<td>$\Delta \alpha$ at 1310 nm during test :&lt;br&gt;0 dB for one cycle&lt;br&gt;&lt; 0.1 dB** for 1000 cycles</td>
</tr>
<tr>
<td><strong>Kink test</strong>&lt;br&gt;EN 3745 – 509</td>
<td>Ø of the kink : 20 mm</td>
<td>$\Delta \alpha$ at 1310 nm during test :&lt;br&gt;&lt; 0.2 dB**</td>
</tr>
<tr>
<td><strong>Bending test</strong>&lt;br&gt;EN 3745 – 510</td>
<td>Ø mandrel : 25 mm&lt;br&gt;10 turns&lt;br&gt;Tension load on cable : 20 N</td>
<td>After bending : $\Delta \alpha$ 0.15 dB**&lt;br&gt;After unwinding : $\Delta \alpha$ residual = 0 dB</td>
</tr>
<tr>
<td><strong>Cable to cable Abrasion</strong>&lt;br&gt;EN 3745 – 511</td>
<td>Optical / Electrical&lt;br&gt;Optical / Electrical&lt;br&gt;Optical / Optical</td>
<td>&gt; 10$^7$ for * CF* 18 with 1 daN load&lt;br&gt; &gt; 10$^7$ for * DM* 18 with 1 daN load&lt;br&gt;6x10$^6$ for 500g load</td>
</tr>
<tr>
<td><strong>Flexure Endurance</strong>&lt;br&gt;EN 3745 – 512</td>
<td>Tension load on cable : 10 N&lt;br&gt;Ø mandrel : 25 mm&lt;br&gt;3000 cycles</td>
<td>$\Delta \alpha$ before and after test &lt; 0.1 dB**&lt;br&gt;No insulation degradation</td>
</tr>
<tr>
<td><strong>Smoke Density</strong>&lt;br&gt;EN 3745 – 601</td>
<td>ABD 0031&lt;br&gt;Method: AITM 2.0008</td>
<td>See Chart 1</td>
</tr>
<tr>
<td>PARAMETER and Measurement norm</td>
<td>TEST Description and Remarks</td>
<td>RESULTS **</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td><strong>Toxicity</strong>&lt;br&gt;EN 3745 – 602</td>
<td>ABD 0031&lt;br&gt;Method: AITM 3.0005</td>
<td>See Chart 1</td>
</tr>
<tr>
<td><strong>Strippability</strong>&lt;br&gt;EN 3745 – 701</td>
<td>Load : 20 N&lt;br&gt;Stripped length : 50 mm&lt;br&gt;Stripping speed : 25 to 50 mm/mn</td>
<td>&lt; 7 N on secondary coating, 900 µm</td>
</tr>
<tr>
<td><strong>Durability of manufacturer identification</strong>&lt;br&gt;EN 3745 – 703</td>
<td>∅ needle : 0.5 mm&lt;br&gt;Load : 1.5 N&lt;br&gt;125 cycles</td>
<td>After test, good printing legibility</td>
</tr>
<tr>
<td><strong>UV laser marking EXCIMER</strong>&lt;br&gt;Laser (XeCPI)&lt;br&gt;between 0.9 and 1.05 J/ cm²</td>
<td>Marking contrast versus jacket &gt; 65 %</td>
<td><strong>Optical tests performed with a 85 % / 85 % source (near field and far field) launch conditions. Launch conditions are calibrated at 15 %</strong></td>
</tr>
</tbody>
</table>

* CF = Polyamide tapes + FEP coating<br>** DM = PTFE wrapped jacket.

1 - STRONG POINTS

**Mechanical properties:**
- High temperature
- High tensile resistance
- High flexibility
- Low weight / Small diameter
- Low bending radius
- Easy strippability

**Optical properties:**
- High bandwidth
- Low cost ferrules (Telecom components)

**Chemical properties:**
- High chemical resistance
- Very low smoke and toxicity
- No flame propagation

2 – MAIN TARGET APPLICATIONS

Harsh environments such as:
- Aeronautical
- Geophysics
- Space
- Missile
- Chemical industry
About Nexans

**Nexans, with its Filotex® products,** has a high technology knowledge and an international experience, which has been developed in different industrial areas:

- Aerospace,
- Railways and Shipboard,
- Automotive,
- Military and Navy,
- Industrial Instrumentation,
- Geophysics,
- Micro-Computing,
- Medical.

**A global presence**

In order to offer the best service, to be close to its customers and respond quickly to their requirements, Nexans is present worldwide.

The production centres are located over 3 continents with sales representatives in 20 countries.

**A wide range of products**

- Single / Multicore cables (hook-up wires),
- Coaxial cables (RG, ..),
- Bus cables (multipairs),
- Special cables (cables for sensors...),
- Twinaxial cables,
- Microcables and microcoaxial cables.

Also available:

- Optical cables and ‘hybrid’ cables which perform under very harsh ambient conditions for aeronautics, railways & shipboard, geophysics and industry.
- Special cable assemblies for applications in aerospace, railways, defence, micro-computing, medical devices…

**Our strengths**

- High technology capabilities:
  - Insulation knowledge: different materials & processes,
  - Screen knowledge: braid and/or tape, spiral,
  - Miniaturization: exclusive technology process.
- Worldwide experience (different markets)
- Development & production capacity:
  - Standard or customized products,
  - Small or long series,
  - Several R&D and production centres.