ESCC wires and cables - AXALU® aluminium cables

AXON® supply a large range of wires and cables in compliance with ESA standards. In addition AXON® has developed, together with Alcatel Space, AXALU® aluminium round cables for power distribution in satellites.

To help you choose the ESCC or AXALU® wire best suited to your application we propose the following selection guide.

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<thead>
<tr>
<th>PRODUCT FAMILY</th>
<th>DESCRIPTION</th>
<th>OPERATING TEMPERATURE</th>
<th>APPLICATIONS</th>
<th>APPROVED SPACE PROJECTS</th>
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</thead>
<tbody>
<tr>
<td>ESCC 3901 001</td>
<td>Polyimide insulated wires and cables</td>
<td>-100°C to +200°C</td>
<td>Large conductor gauges: AWG 12 to 16.</td>
<td>HOT BIRD, LISA PATHFINDER, ARIANE 54, EUROSTAR 3000</td>
</tr>
<tr>
<td>ESCC 3901 002</td>
<td>Lightweight polyimide insulated wires and cables</td>
<td>-100°C to +200°C</td>
<td>Smaller conductor gauges than the ESCC 3901 001 family: AWG 18 to 28.</td>
<td>HOT BIRD, LISA PATHFINDER, GAIA, ARIANE 5, ALPHASAT, SENTINEL 2</td>
</tr>
<tr>
<td>ESCC 3901 012</td>
<td>Extruded cross-linked ETFE insulated wires and cables</td>
<td>-100°C to +200°C</td>
<td>Large range of conductor gauges from AWG 12 to 30.</td>
<td>CBERS, SAOCOM, SENTINEL</td>
</tr>
<tr>
<td>ESCC 3901 013</td>
<td>PTFE insulated wires and cables</td>
<td>-100°C to +200°C</td>
<td>Internal cabling of electronic boxes. PTFE allows for a thinner jacket and improves flexibility.</td>
<td>PLANCK, LISA PATHFINDER</td>
</tr>
<tr>
<td>ESCC 3901 018</td>
<td>Polyimide / Fluorothermoplastic insulated wires and cables</td>
<td>-200°C to +200°C</td>
<td>Low Earth Orbit (LEO) applications. Jacket resistant to atomic oxygen (ATOX) environment.</td>
<td>GOCE, BEPI COLOMBO</td>
</tr>
<tr>
<td>ESCC 3901 019</td>
<td>CELLOFLON® / Polyimide insulated wires and cables</td>
<td>-200°C to +200°C</td>
<td>Cryogenic applications (optical instruments), and wherever mass is a critical issue. Celloflon® is a weight saving material with high stability across large temperature range.</td>
<td>EXOMARS ROVER, GALILEO</td>
</tr>
<tr>
<td>ESCC 3901 021</td>
<td>CELLOFLON® / Polyimide insulated shielded cables with drain wire</td>
<td>-200°C to +200°C</td>
<td>Same as 019 family. In addition, a drain wire is provided to ease shield construction.</td>
<td></td>
</tr>
<tr>
<td>ESCC 3901 024</td>
<td>Abrasion Resistance Tape (ART®) PTFE insulated wires and cables</td>
<td>-200°C to +200°C</td>
<td>Abrasion resistant ART® PTFE AXON® tape. Improved flexibility and bend radius.</td>
<td>VEGA LAUNCHER</td>
</tr>
<tr>
<td>PRODUCT FAMILY</td>
<td>DESCRIPTION</td>
<td>OPERATING TEMPERATURE</td>
<td>APPLICATIONS</td>
<td>APPROVED SPACE PROJECTS</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------</td>
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<td>--------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>ESCC 3902 002</td>
<td>Coaxial cable: CELLOFLON® PTFE dielectric</td>
<td>-200°C to +180°C</td>
<td>Coaxial line with 50 or 75 Ohms.</td>
<td></td>
</tr>
<tr>
<td>ESCC 3902 002</td>
<td>Triaxial cable: CELLOFLON® PTFE dielectric</td>
<td>-200°C to +180°C</td>
<td>Triaxial line with 50 or 75 Ohms.</td>
<td></td>
</tr>
<tr>
<td>ESCC 3902 002</td>
<td>Twisted pair bus cable</td>
<td>-200°C to +180°C</td>
<td>Balanced shielded line with 75, 100 or 120 Ohms.</td>
<td>GAIA, HOT BIRD, SENTINEL 1</td>
</tr>
<tr>
<td>ESCC 3902 003</td>
<td>Quadribus cable</td>
<td>-200°C to +180°C</td>
<td>100 Ohms LVDS protocol like spacewire, IEEE 1394,...</td>
<td>AMS, COROT, GAIA, ALPHASAT</td>
</tr>
<tr>
<td>PRODUCT FAMILY</td>
<td>DESCRIPTION</td>
<td>OPERATING TEMPERATURE</td>
<td>APPLICATIONS</td>
<td>APPROVED SPACE PROJECTS</td>
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</tr>
<tr>
<td>AXALU®</td>
<td>Aluminium silver plated conductors with cross-linked ETFE insulation</td>
<td>-100°C to +150°C</td>
<td>Power distribution systems on satellites. Weight saving aluminium conductors.</td>
<td>SPACEBUS 2000 &amp; 4000</td>
</tr>
</tbody>
</table>
**Single wires**

**ESCC 3901 001**

Polyimide insulation

Operating temperature: -100°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**
1 - Stranded silver plated copper or copper alloy conductor,
2 - Polyimide tape,
3 - Polyimide tape,
4 - Polyimide coating.

**Main characteristics**
Excellent physical, chemical and electrical properties:
- excellent penetration resistance under pressure,
- excellent radiation resistance,
- resist large overloads with no fire risk,
- non-flammable,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping.

---

**AXON’ REFERENCE** | **CONDUCTOR** | **MAX. Ø mm** | **NOM. CROSS SECTION mm²** | **MAX. DC RESISTANCE AT 20°C Ω / km** | **MAX. Ø mm** | **SINGLE WIRE COLOUR** | **MAX. WEIGHT g/m**
--- | --- | --- | --- | --- | --- | --- | ---
ESCC 3901 001 47 | 28 19X0.08 SPCA | 0.43 | 0.10 | 242 | 0.73 | Brown | 1.37
ESCC 3901 001 24 | 26 19X0.10 SPCA | 0.53 | 0.15 | 148 | 0.84 | Black | 2.05
ESCC 3901 001 25 | 24 19X0.12 SPCA | 0.64 | 0.21 | 105 | 0.95 | Khaki-beige | 2.75
ESCC 3901 001 26 | 22 19X0.16 SPC | 0.85 | 0.38 | 50.9 | 1.15 | Red | 4.40
ESCC 3901 001 27 | 20 19X0.20 SPC | 1.04 | 0.60 | 32.2 | 1.35 | Green | 6.65
ESCC 3901 001 28 | 18 19X0.25 SPC | 1.29 | 0.93 | 20.6 | 1.60 | Yellow | 9.98
ESCC 3901 001 29 | 16 19X0.30 SPC | 1.53 | 1.30 | 14.3 | 1.85 | Brown | 14.0
ESCC 3901 001 30 | 14 27X0.30 SPC | 1.87 | 1.90 | 10.1 | 2.19 | Khaki-beige | 19.6
ESCC 3901 001 31 | 12 45X0.30 SPC | 2.50 | 3.20 | 6.03 | 2.80 | Khaki-beige | 32.1

SPC: silver plated copper - SPCA: silver plated copper alloy

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CABLES & HARNESS FOR SPACE APPLICATIONS - www.axon-cable.com
**Twisted pairs**

**ESCC 3901 001**

**Polyimide insulation**

Operating temperature: -100°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**

1. Stranded silver plated copper or copper alloy conductor,
2. Polyimide tape,
3. Polyimide tape,
4. Polyimide coating,
5. Polyimide tape with stripes.

**Main characteristics**

Excellent physical, chemical and electrical properties:
- excellent penetration resistance under pressure,
- excellent radiation resistance,
- resist large overloads with no fire risk,
- non-flammable,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>CONDUCTOR</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>SINGLE WIRE COLOUR</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET &amp; STRIPE COLOUR</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 001 32</td>
<td>16</td>
<td>19x0.30 SPC</td>
<td>1.53</td>
<td>1.30</td>
<td>15.0</td>
<td>1.85</td>
<td>Brown</td>
<td>3.80</td>
</tr>
<tr>
<td>ESCC 3901 001 33</td>
<td>14</td>
<td>27x0.30 SPC</td>
<td>1.87</td>
<td>1.90</td>
<td>10.6</td>
<td>2.19</td>
<td>Khaki-beige</td>
<td>4.48</td>
</tr>
<tr>
<td>ESCC 3901 001 34</td>
<td>12</td>
<td>45x0.30 SPC</td>
<td>2.40</td>
<td>3.20</td>
<td>6.33</td>
<td>2.80</td>
<td>Khaki-beige</td>
<td>5.70</td>
</tr>
</tbody>
</table>

Stripe width: 0.6mm +/- 30%
Space between two stripes: 1.0mm +/- 30%

SPC: silver plated copper
Twisted triples

ESCC 3901 001

Polyimide insulation
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Polyimide tape,
3 - Polyimide tape,
4 - Polyimide coating,
5 - Polyimide tape with stripes.

Main characteristics
Excellent physical, chemical and electrical properties:
- excellent penetration resistance under pressure,
- excellent radiation resistance,
- resist large overloads with no fire risk,
- non-flammable,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>SINGLE WIRE COLOUR</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET &amp; STRIPE COLOUR</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 001 35</td>
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<td>19X0.30 SPC</td>
<td>1.53</td>
<td>1.30</td>
<td>15.0</td>
<td>1.85</td>
<td>Brown</td>
<td>4.08</td>
<td>Amber &amp; Brown</td>
<td>46.1</td>
</tr>
<tr>
<td>ESCC 3901 001 36</td>
<td>14</td>
<td>27X0.30 SPC</td>
<td>1.87</td>
<td>1.90</td>
<td>10.6</td>
<td>2.19</td>
<td>Khaki-beige</td>
<td>4.82</td>
<td>Amber &amp; White</td>
<td>64.6</td>
</tr>
<tr>
<td>ESCC 3901 001 37</td>
<td>12</td>
<td>45X0.30 SPC</td>
<td>2.40</td>
<td>3.20</td>
<td>6.33</td>
<td>2.8</td>
<td>Khaki-beige</td>
<td>6.15</td>
<td>Amber &amp; White</td>
<td>106</td>
</tr>
</tbody>
</table>

Stripe width: 0.6mm +/- 30%
Space between two stripes: 1.0mm +/- 30%

ESCC 3901 001 35
16X0.30 SPC
1.53
1.30
15.0
1.85
Brown
4.08
Amber & Brown
46.1

ESCC 3901 001 36
14X0.30 SPC
1.87
1.90
10.6
2.19
Khaki-beige
4.82
Amber & White
64.6

ESCC 3901 001 37
12X0.30 SPC
2.40
3.20
6.33
2.8
Khaki-beige
6.15
Amber & White
106

SPC: silver plated copper
Shielded jacketed single wires

ESCC 3901 001

Polyimide insulation

Operating temperature: -100°C up to +200°C

Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Polyimide tape,
3 - Polyimide tape,
4 - Polyimide coating,
5 - Silver plated copper helicoidal shield,
6 - Polyimide tape,
7 - FEP coating with stripes.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON’ REFERENCE</th>
<th>AWG</th>
<th>CONDUCTOR</th>
<th>STRANDED Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>SINGLE WIRE COLOUR</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET &amp; STRIPE COLOUR</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 001 38</td>
<td>16</td>
<td>19X0.30 SPC</td>
<td>1.53 1.30</td>
<td>14.30</td>
<td>0.10</td>
<td>1.85</td>
<td>Brown</td>
<td>2.23</td>
<td>White &amp; Brown</td>
<td>18.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESCC 3901 001 39</td>
<td>14</td>
<td>27X0.30 SPC</td>
<td>1.87 1.90</td>
<td>10.10</td>
<td>0.12</td>
<td>2.19</td>
<td>Khaki-beige</td>
<td>2.63</td>
<td>Light blue &amp; White</td>
<td>27.0</td>
<td></td>
<td></td>
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<tr>
<td>ESCC 3901 001 40</td>
<td>12</td>
<td>45X0.30 SPC</td>
<td>2.40 3.20</td>
<td>6.03</td>
<td>0.15</td>
<td>2.80</td>
<td>Khaki-beige</td>
<td>3.30</td>
<td>Light blue &amp; White</td>
<td>43.3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Stripe width: 0.6mm +/- 30%

SPC: silver plated copper
Shielded jacketed twisted pairs

ESCC 3901 001

Polyimide insulation
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Polyimide tape,
3 - Polyimide tape,
4 - Polyimide coating,
5 - Silver plated copper helicoidal shield,
6 - Polyimide tape,
7 - PTFE tape with stripes.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON’ REFERENCE</th>
<th>AWG</th>
<th>CONDUCTOR</th>
<th>STRANDING Nb x Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C ohm/km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>SINGLE WIRE COLOUR</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET &amp; STRIPE COLOUR</th>
<th>MAX. WEIGHT g/m</th>
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<tbody>
<tr>
<td>ESCC 3901 001 41</td>
<td>16</td>
<td>19X0.30 SPC</td>
<td>1.53</td>
<td>1.30</td>
<td>15.00</td>
<td>0.15</td>
<td>1.85</td>
<td>Brown</td>
<td>4.26</td>
<td>White &amp; Brown</td>
<td>41.8</td>
</tr>
<tr>
<td>ESCC 3901 001 42</td>
<td>14</td>
<td>27X0.30 SPC</td>
<td>1.87</td>
<td>1.90</td>
<td>10.60</td>
<td>0.15</td>
<td>2.19</td>
<td>Khaki-beige</td>
<td>5.07</td>
<td>Light blue &amp; White</td>
<td>55.6</td>
</tr>
<tr>
<td>ESCC 3901 001 43</td>
<td>12</td>
<td>45X0.30 SPC</td>
<td>2.40</td>
<td>3.20</td>
<td>6.33</td>
<td>0.20</td>
<td>2.80</td>
<td>Khaki-beige</td>
<td>6.30</td>
<td>Light blue &amp; White</td>
<td>90.5</td>
</tr>
</tbody>
</table>

Stripe width: 0.6mm +/- 30%
Space between two stripes: 1.0mm +/- 30%

SPC: silver plated copper
Shielded jacketed twisted triples

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Polyimide tape,
3 - Polyimide tape,
4 - Polyimide coating,
5 - Silver plated copper helicoidal shield,
6 - Polyimide tape,
7 - PTFE tape with stripes.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

ESCC 3901 001
Polyimide insulation
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

<table>
<thead>
<tr>
<th>AXON’ REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>SINGLE WIRE COLOUR</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET &amp; STRIPE COLOUR</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 001 44</td>
<td>16</td>
<td>19X0.30 SPC</td>
<td>1.53</td>
<td>1.30</td>
<td>0.15</td>
<td>1.85</td>
<td>Brown</td>
<td>4.54</td>
<td>White &amp; Brown</td>
<td></td>
<td>58.2</td>
</tr>
<tr>
<td>ESCC 3901 001 45</td>
<td>14</td>
<td>27X0.30 SPC</td>
<td>1.87</td>
<td>1.90</td>
<td>0.20</td>
<td>2.19</td>
<td>Khaki-beige</td>
<td>5.40</td>
<td>Light blue &amp; White</td>
<td></td>
<td>83.3</td>
</tr>
<tr>
<td>ESCC 3901 001 46</td>
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<td>45X0.30 SPC</td>
<td>2.40</td>
<td>3.20</td>
<td>0.20</td>
<td>2.80</td>
<td>Khaki-beige</td>
<td>6.72</td>
<td>Light blue &amp; White</td>
<td></td>
<td>127.3</td>
</tr>
</tbody>
</table>

Stripe width: 0.6mm +/- 30%
Space between two stripes: 1.0mm +/- 30%

SPC: silver plated copper
Single wires

ESCC 3901 002
Polyimide insulation, light version
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Polyimide tape,
3 - Polyimide coating.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>MAX. Ø mm</th>
<th>SINGLE WIRE COLOUR</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 002 61</td>
<td>28</td>
<td>19X0.08 SPCA</td>
<td>0.43</td>
<td>0.10</td>
<td>242</td>
<td>0.68</td>
<td>Brown</td>
<td>1.23</td>
</tr>
<tr>
<td>ESCC 3901 002 56</td>
<td>26</td>
<td>19X0.10 SPCA</td>
<td>0.53</td>
<td>0.15</td>
<td>148</td>
<td>0.78</td>
<td>Black</td>
<td>1.93</td>
</tr>
<tr>
<td>ESCC 3901 002 57</td>
<td>24</td>
<td>19X0.12 SPCA</td>
<td>0.64</td>
<td>0.21</td>
<td>105</td>
<td>0.88</td>
<td>Khaki-beige</td>
<td>2.64</td>
</tr>
<tr>
<td>ESCC 3901 002 58</td>
<td>22</td>
<td>19X0.16 SPC</td>
<td>0.85</td>
<td>0.38</td>
<td>50.9</td>
<td>1.08</td>
<td>Red</td>
<td>4.25</td>
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<tr>
<td>ESCC 3901 002 59</td>
<td>20</td>
<td>19X0.20 SPC</td>
<td>1.04</td>
<td>0.60</td>
<td>32.2</td>
<td>1.28</td>
<td>Green</td>
<td>6.49</td>
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<tr>
<td>ESCC 3901 002 60</td>
<td>18</td>
<td>19X0.25 SPC</td>
<td>1.29</td>
<td>0.93</td>
<td>20.6</td>
<td>1.53</td>
<td>Yellow</td>
<td>9.79</td>
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</table>

ESCC 3901 002 61
ESCC 3901 002 56
ESCC 3901 002 57
ESCC 3901 002 58
ESCC 3901 002 59
ESCC 3901 002 60

SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted pairs

ESCC 3901 002
Polyimide insulation, light version
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Polyimide tape,
3 - Polyimide coating,
4 - Polyimide tape with stripes.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON’ REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/ km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>SINGLE WIRE COLOUR</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET &amp; NUMBER TYPE &amp; COLOUR OF STRIPES</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 002 62</td>
<td>28</td>
<td>19x0.08 SPCA</td>
<td>0.43</td>
<td>0.10</td>
<td>254</td>
<td>0.68</td>
<td>Brown</td>
<td>1.43</td>
<td>Amber &amp; 2 narrow brown</td>
<td>2.70</td>
</tr>
<tr>
<td>ESCC 3901 002 31</td>
<td>26</td>
<td>19x0.10 SPCA</td>
<td>0.53</td>
<td>0.15</td>
<td>155</td>
<td>0.78</td>
<td>Black</td>
<td>1.64</td>
<td>Amber &amp; 2 narrow black</td>
<td>4.42</td>
</tr>
<tr>
<td>ESCC 3901 002 32</td>
<td>24</td>
<td>19x0.12 SPCA</td>
<td>0.64</td>
<td>0.21</td>
<td>110</td>
<td>0.88</td>
<td>Khaki-beige</td>
<td>1.84</td>
<td>Amber &amp; 2 narrow white</td>
<td>5.91</td>
</tr>
<tr>
<td>ESCC 3901 002 33</td>
<td>22</td>
<td>19x0.16 SPC</td>
<td>0.85</td>
<td>0.38</td>
<td>53.5</td>
<td>1.08</td>
<td>Red</td>
<td>2.24</td>
<td>Amber &amp; 2 narrow red</td>
<td>9.41</td>
</tr>
<tr>
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<td>19x0.20 SPC</td>
<td>1.04</td>
<td>0.60</td>
<td>33.8</td>
<td>1.28</td>
<td>Green</td>
<td>2.64</td>
<td>Amber &amp; 2 narrow green</td>
<td>14.20</td>
</tr>
<tr>
<td>ESCC 3901 002 35</td>
<td>18</td>
<td>19x0.25 SPC</td>
<td>1.29</td>
<td>0.93</td>
<td>21.6</td>
<td>1.53</td>
<td>Yellow</td>
<td>3.15</td>
<td>Amber &amp; 2 narrow yellow</td>
<td>21.30</td>
</tr>
</tbody>
</table>

Stripe width: 0.6mm +/- 30%
Space between two stripes: 1.0mm +/- 30%

SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted triples

ESCC 3901 002
Polyimide insulation, light version
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Polyimide tape,
3 - Polyimide coating,
4 - Polyimide tape with stripes.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/ km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>SINGLE WIRE COLOUR</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET &amp; NUMBER, TYPE &amp; COLOUR OF STRIPES</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 002 63</td>
<td>28</td>
<td>19x0.08 SPCA</td>
<td>0.43</td>
<td>0.10</td>
<td>254</td>
<td>0.68</td>
<td>Brown</td>
<td>1.53</td>
<td>Amber</td>
<td>3.95</td>
</tr>
<tr>
<td>ESCC 3901 002 36</td>
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<td>19x0.10 SPCA</td>
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<td>0.15</td>
<td>155</td>
<td>0.78</td>
<td>Black</td>
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<td>Amber &amp; 3 narrow black</td>
<td>6.45</td>
</tr>
<tr>
<td>ESCC 3901 002 37</td>
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<td>19x0.12 SPCA</td>
<td>0.64</td>
<td>0.21</td>
<td>110</td>
<td>0.88</td>
<td>Khaki-beige</td>
<td>1.97</td>
<td>Amber &amp; 3 narrow white</td>
<td>8.81</td>
</tr>
<tr>
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<td>19x0.16 SPC</td>
<td>0.85</td>
<td>0.38</td>
<td>53.5</td>
<td>1.08</td>
<td>Red</td>
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<td>Amber &amp; 3 narrow red</td>
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<tr>
<td>ESCC 3901 002 39</td>
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<td>19x0.20 SPC</td>
<td>1.04</td>
<td>0.60</td>
<td>33.8</td>
<td>1.28</td>
<td>Green</td>
<td>2.84</td>
<td>Amber &amp; 3 narrow green</td>
<td>21.10</td>
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<tr>
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<td>19x0.25 SPC</td>
<td>1.29</td>
<td>0.93</td>
<td>21.6</td>
<td>1.53</td>
<td>Yellow</td>
<td>3.40</td>
<td>Amber &amp; 3 narrow yellow</td>
<td>31.60</td>
</tr>
</tbody>
</table>

Stripe width: 0.6mm +/- 30%
Space between two stripes: 1.0mm +/- 30%

SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed single wires

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Polyimide tape,
3 - Polyimide coating,
4 - Silver plated copper helicoidal shield,
5 - Polyimide tape,
6 - FEP coating with stripes.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

ESCC 3901 002
Polyimide insulation, light version
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

<table>
<thead>
<tr>
<th>AXON’ REFERENCE</th>
<th>CONDUCTOR</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RES. AT 20°C Ω / km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>SINGLE WIRE COLOUR</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET &amp; NUMBER, TYPE &amp; COLOUR OF STRIPES</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 002 64</td>
<td>28</td>
<td>19x0.08 SPCA</td>
<td>0.43</td>
<td>0.10</td>
<td>242</td>
<td>0.08</td>
<td>U.88</td>
<td>Brown</td>
<td>1.0/</td>
<td>White &amp; 1 narrow ■</td>
<td>3.05</td>
<td></td>
</tr>
<tr>
<td>ESCC 3901 002 41</td>
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<td>19x0.10 SPCA</td>
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<td>0.15</td>
<td>148</td>
<td>0.08</td>
<td>0.78</td>
<td>Black</td>
<td>1.13</td>
<td>White &amp; 1 narrow ■</td>
<td>3.85</td>
<td></td>
</tr>
<tr>
<td>ESCC 3901 002 42</td>
<td>24</td>
<td>19x0.12 SPCA</td>
<td>0.64</td>
<td>0.21</td>
<td>105</td>
<td>0.08</td>
<td>0.88</td>
<td>Khaki-beige</td>
<td>1.23</td>
<td>Light blue &amp; 1 narrow ▭</td>
<td>4.75</td>
<td></td>
</tr>
<tr>
<td>ESCC 3901 002 43</td>
<td>22</td>
<td>19x0.16 SPC</td>
<td>0.85</td>
<td>0.38</td>
<td>50.9</td>
<td>0.08</td>
<td>1.08</td>
<td>Red</td>
<td>1.43</td>
<td>White &amp; 1 narrow ■</td>
<td>6.86</td>
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</tr>
<tr>
<td>ESCC 3901 002 44</td>
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<td>19x0.20 SPC</td>
<td>1.04</td>
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<td>32.2</td>
<td>0.10</td>
<td>1.53</td>
<td>Yellow</td>
<td>1.92</td>
<td>White &amp; 1 narrow ■</td>
<td>13.8</td>
<td></td>
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<tr>
<td>ESCC 3901 002 45</td>
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<td>19x0.25 SPC</td>
<td>1.29</td>
<td>0.93</td>
<td>20.6</td>
<td>0.10</td>
<td>1.53</td>
<td>Green</td>
<td>1.43</td>
<td>White &amp; 1 narrow ■</td>
<td>13.8</td>
<td></td>
</tr>
</tbody>
</table>

Stripe width: 0.6mm +/- 30%

SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted pairs

**ESCC 3901 002**

Polyimide insulation, light version

Operating temperature: -100°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**

1. Stranded silver plated copper or copper alloy conductor,
2. Polyimide tape,
3. Polyimide coating,
4. Silver plated copper helicoidal shield,
5. Polyimide tape,
6. PTFE tape with stripes.

**Main characteristics**

Excellent physical, chemical and electrical properties:

- excellent penetration resistance under pressure,
- excellent radiation resistance,
- resist large overloads with no fire risk,
- non-flammable,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping.

---

<table>
<thead>
<tr>
<th>AXON' REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RES. AT 20°C Ω / km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>SINGLE WIRE COLOUR</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET &amp; NUMBER, TYPE &amp; COLOUR OF STRIPES</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 002 65</td>
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<td>19x0.08 SPCA</td>
<td>0.43</td>
<td>0.10</td>
<td>224</td>
<td>0.08</td>
<td>0.68</td>
<td>Brown</td>
<td>1.80</td>
<td>White &amp; 2 narrow ■ ■ ■ 2 / Ø</td>
<td></td>
</tr>
<tr>
<td>ESCC 3901 002 46</td>
<td>26</td>
<td>19x0.10 SPCA</td>
<td>0.53</td>
<td>0.15</td>
<td>155</td>
<td>0.08</td>
<td>0.78</td>
<td>Black</td>
<td>2.01</td>
<td>White &amp; 2 narrow ■ ■ ■ 8.00</td>
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</tr>
<tr>
<td>ESCC 3901 002 47</td>
<td>24</td>
<td>19x0.12 SPCA</td>
<td>0.64</td>
<td>0.21</td>
<td>110</td>
<td>0.10</td>
<td>0.88</td>
<td>Khaki-beige</td>
<td>2.24</td>
<td>Light blue &amp; 2 narrow ▼ ▼ ▼ 10.50</td>
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</tr>
<tr>
<td>ESCC 3901 002 48</td>
<td>22</td>
<td>19x0.16 SPC</td>
<td>0.85</td>
<td>0.38</td>
<td>53.5</td>
<td>0.10</td>
<td>1.08</td>
<td>Red</td>
<td>2.65</td>
<td>White &amp; 2 narrow ■ ■ ■ 14.80</td>
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</tr>
<tr>
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<td>0.50</td>
<td>33.8</td>
<td>0.14</td>
<td>1.28</td>
<td>Green</td>
<td>3.03</td>
<td>White &amp; 2 narrow ■ ■ ■ 20.25</td>
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</tr>
<tr>
<td>ESCC 3901 002 50</td>
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<td>19x0.25 SPC</td>
<td>1.29</td>
<td>0.93</td>
<td>21.6</td>
<td>0.12</td>
<td>1.53</td>
<td>Yellow</td>
<td>3.58</td>
<td>White &amp; 2 narrow ■ ■ ■ 29.60</td>
<td></td>
</tr>
</tbody>
</table>

Stripe width: 0.6mm +/- 30%
Space between two stripes: 1.0mm +/- 30%

SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted triples

**ESCC 3901 002**

Polyimide insulation, light version

Operating temperature: -100°C up to -200°C

Voltage rating: 600 VAC max.

**Construction**

1. Stranded silver plated copper or copper alloy conductor,
2. Polyimide tape,
3. Polyimide coating,
4. Silver plated copper helicoidal shield,
5. Polyimide tape,
6. PTFE tape with stripes.

**Main characteristics**

Excellent physical, chemical and electrical properties:
- excellent penetration resistance under pressure,
- excellent radiation resistance,
- resist large overloads with no fire risk,
- non-flammable,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON' REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RES. AT 20°C Ω/km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>SINGLE WIRE COLOUR</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET &amp; NUMBER, TYPE &amp; COLOUR OF STRIPES</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 002 66</td>
<td>28</td>
<td>19x0.08 SPCA</td>
<td>0.43</td>
<td>0.10</td>
<td>22.4</td>
<td>0.10</td>
<td>0.68</td>
<td>Brown</td>
<td>1.92</td>
<td>White</td>
<td>8.10</td>
</tr>
<tr>
<td>ESCC 3901 002 51</td>
<td>26</td>
<td>19x0.10 SPCA</td>
<td>0.53</td>
<td>0.15</td>
<td>155</td>
<td>0.10</td>
<td>0.78</td>
<td>Black</td>
<td>2.15</td>
<td>White &amp; 3 narrow</td>
<td>11.20</td>
</tr>
<tr>
<td>ESCC 3901 002 52</td>
<td>24</td>
<td>19x0.12 SPCA</td>
<td>0.64</td>
<td>0.21</td>
<td>110</td>
<td>0.10</td>
<td>0.88</td>
<td>Khaki-beige</td>
<td>2.36</td>
<td>Light blue &amp; 3 narrow</td>
<td>14.00</td>
</tr>
<tr>
<td>ESCC 3901 002 53</td>
<td>22</td>
<td>19x0.16 SPC</td>
<td>0.85</td>
<td>0.38</td>
<td>53.5</td>
<td>0.10</td>
<td>1.08</td>
<td>Red</td>
<td>2.82</td>
<td>White &amp; 3 narrow</td>
<td>20.20</td>
</tr>
<tr>
<td>ESCC 3901 002 54</td>
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<td>19x0.20 SPC</td>
<td>1.04</td>
<td>0.60</td>
<td>33.8</td>
<td>0.12</td>
<td>1.28</td>
<td>Green</td>
<td>3.26</td>
<td>White &amp; 3 narrow</td>
<td>29.40</td>
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<tr>
<td>ESCC 3901 002 55</td>
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<td>19x0.25 SPC</td>
<td>1.29</td>
<td>0.93</td>
<td>21.6</td>
<td>0.15</td>
<td>1.53</td>
<td>Yellow</td>
<td>3.86</td>
<td>White &amp; 3 narrow</td>
<td>44.10</td>
</tr>
</tbody>
</table>

Stripe width: 0.6mm +/- 30%
Space between two stripes: 1.0mm +/- 30%

SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted quads

ESCC 3901 002
Polyimide insulation, light version
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Polyimide tape,
3 - Polyimide coating,
4 - Silver plated copper helicoidal shield,
5 - Polyimide tape,
6 - PTFE tape with stripes.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RES. AT 20°C m/km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>SINGLE WIRE COLOUR</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET &amp; NUMBER, TYPE &amp; COLOUR OF STRIPES</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 002 67</td>
<td>28</td>
<td>19X0.08 SPCA</td>
<td>0.43</td>
<td>0.10</td>
<td>254</td>
<td>0.10</td>
<td>0.68</td>
<td>Brown</td>
<td>2.11</td>
<td>White &amp; 1 wide</td>
<td>10.1b</td>
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<tr>
<td>ESCC 3901 002 68</td>
<td>26</td>
<td>19X0.10 SPCA</td>
<td>0.53</td>
<td>0.15</td>
<td>155</td>
<td>0.10</td>
<td>0.78</td>
<td>Black</td>
<td>2.40</td>
<td>White &amp; 1 wide</td>
<td>13.30</td>
</tr>
<tr>
<td>ESCC 3901 002 69</td>
<td>24</td>
<td>19X0.12 SPCA</td>
<td>0.64</td>
<td>0.21</td>
<td>110</td>
<td>0.10</td>
<td>0.88</td>
<td>Khaki-beige</td>
<td>2.65</td>
<td>Light blue &amp; 1 wide</td>
<td>16.50</td>
</tr>
<tr>
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<td>19X0.16 SPC</td>
<td>0.85</td>
<td>0.38</td>
<td>53.5</td>
<td>0.12</td>
<td>1.08</td>
<td>Red</td>
<td>3.17</td>
<td>White &amp; 1 wide</td>
<td>26.40</td>
</tr>
<tr>
<td>ESCC 3901 002 71</td>
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<td>19X0.20 SPC</td>
<td>1.04</td>
<td>0.60</td>
<td>33.8</td>
<td>0.1b</td>
<td>1.28</td>
<td>Green</td>
<td>3.1b</td>
<td>White &amp; 1 wide</td>
<td>38.80</td>
</tr>
</tbody>
</table>

Stripe width: 1.0mm +/- 30%

SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted 5-core cables

ESCC 3901 002
Polyimide insulation, light version
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - PTFE filler,
2 - Stranded silver plated copper or copper alloy conductor,
3 - Polyimide tape,
4 - Polyimide coating,
5 - Silver plated copper helicoidal shield,
6 - Polyimide tape,
7 - PTFE tape with stripes.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

| AXON REFERENCE | AWG | CONDUCTOR | STRANDING Nb x Ø mm | MAX. Ø mm | NOM. CROSS SECTION mm² | MAX. DC RES. AT 20°C Ω/km | SHIELD STRAND Ø mm | SINGLE WIRE MAX. Ø mm | SINGLE WIRE COLOUR | OVERALL MAX. Ø mm | JACKET & NUMBER, TYPE & COLOUR OF STRIPES | MAX. WEIGHT g/m |
|----------------|-----|-----------|----------------------|----------|------------------------|--------------------------|-------------------|-------------------|----------------|
| ESCC 3901 002 72 | 28  | 19x0.08 SPCA | 0.43                 | 0.10     | 254                    | 0.10                     | 0.68              | Brown            | 2.27            | White & 1 wide, 1 narrow ■ | 12.10 |
| ESCC 3901 002 73 | 26  | 19x0.10 SPCA | 0.53                 | 0.15     | 155                    | 0.10                     | 0.78              | Black            | 2.56            | White & 1 wide, 1 narrow ■ | 15.80 |

Narrow stripe width: 0.6mm +/- 30%
Wide stripe width: 1.0mm +/- 30%
Space between two stripes: 1.0mm +/- 30%

SPCA: silver plated copper alloy
**Single wires**

**ESCC 3901 012**

Crosslinked ETFE insulation, standard version

Operating temperature: -100°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**

1. Stranded silver plated copper or copper alloy conductor,
2. Extruded crosslinked ETFE insulation.

Colour to be specified when ordering (see page 35):
black, brown, red, orange, yellow, green, blue, violet, grey, white.

Note: the colours are light.

**Main characteristics**

Good physical, chemical and electrical properties:
› good penetration resistance under pressure,
› good radiation resistance,
› resist large overloads with no fire risk,
› suited for thermal, mechanical or laser stripping.

**AXON' CABLE**

<table>
<thead>
<tr>
<th>AXON' REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted pairs

ESCC 3901 012
Crosslinked ETFE insulation, standard version
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1. Stranded silver plated copper or copper alloy conductor,
2. Extruded crosslinked ETFE insulation.

Colour to be specified when ordering (see page 35):
black, brown, red, orange, yellow, green, blue, violet, grey, white.
Note: the colours are light.

Main characteristics
Good physical, chemical and electrical properties:
- good penetration resistance under pressure,
- good radiation resistance,
- resist large overloads with no fire risk,
- resistant to most chemicals
- suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON' REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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<td>8.86</td>
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<td>2.74</td>
<td>5.48</td>
<td>65.46</td>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted triples

**ESCC 3901 012**

Crosslinked ETFE insulation, standard version

Operating temperature: -100°C up to +200°C

Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Extruded crosslinked ETFE insulation.

Colour to be specified when ordering (see page 36):
black, brown, red, orange, yellow, green, blue, violet, grey, white.

Note: the colours are light.

Main characteristics
Good physical, chemical and electrical properties:
› good penetration resistance under pressure,
› good radiation resistance,
› resist large overloads with no fire risk,
› resistant to most chemicals
› suited for thermal, mechanical or laser stripping.

### AXON REFERENCE | AWG | STRANDING Nb x Ø mm | MAX. Ø mm | NOM. CROSS SECTION mm² | MAX. DC RESISTANCE AT 20°C Ω / km | SINGLE WIRE MAX. Ø mm | BUNDLE MAX. Ø mm | MAX. WEIGHT g/m
---|---|---|---|---|---|---|---|---
ESCC 3901 012 21 | 30 | 7X0.10 SPCA | 0.30 | 0.06 | 385.1 | 0.63 | 1.37 | 3.03
ESCC 3901 012 22 | 28 | 7X0.12 SPCA | 0.38 | 0.08 | 244 | 0.69 | 1.50 | 4.17
ESCC 3901 012 23 | 26 | 19X0.10 SPCA | 0.53 | 0.15 | 149 | 0.86 | 1.86 | 6.64
ESCC 3901 012 24 | 24 | 19X0.12 SPCA | 0.66 | 0.25 | 106.2 | 0.99 | 2.14 | 9.18
ESCC 3901 012 25 | 22 | 19X0.15 SPC | 0.79 | 0.40 | 54.3 | 1.14 | 2.46 | 13.29
ESCC 3901 012 26 | 20 | 19X0.20 SPCA | 1.04 | 0.60 | 32.3 | 1.37 | 2.95 | 21.72
ESCC 3901 012 27 | 18 | 19X0.25 SPC | 1.29 | 1.00 | 20.3 | 1.63 | 3.52 | 32.61
ESCC 3901 012 28 | 16 | 19X0.30 SPC | 1.55 | 1.20 | 14.8 | 1.90 | 4.10 | 45.88
ESCC 3901 012 29 | 14 | 37X0.25 SPC | 1.82 | 2.00 | 10.2 | 2.29 | 4.95 | 61.26
ESCC 3901 012 30 | 12 | 37X0.32 SPC | 2.28 | 3.00 | 6.51 | 2.74 | 5.92 | 98.19

SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted quads

ESCC 3901 012
Crosslinked ETFE insulation, standard version
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1. Stranded silver plated copper or copper alloy conductor,
2. Extruded crosslinked ETFE insulation.

Colour to be specified when ordering (see page 36):
- black, brown, red, orange, yellow, green, blue, violet, grey, white.
Note: the colours are light.

Main characteristics
Good physical, chemical and electrical properties:
- good penetration resistance under pressure,
- good radiation resistance,
- resist large overloads with no fire risk,
- resistant to most chemicals
- suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</thead>
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<td>ESCC 3901 012 32</td>
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<td>244</td>
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<td>0.40</td>
<td>54.3</td>
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<td>2.75</td>
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<td>1.90</td>
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<td>3.00</td>
<td>6.51</td>
<td>2.74</td>
<td>6.60</td>
<td>130.92</td>
</tr>
</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed single wires

ESCC 3901 012
Crosslinked ETFE insulation, standard version
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1. Stranded silver plated copper or copper alloy conductor,
2. Extruded crosslinked ETFE insulation,
3. Silver plated copper shield,
4. Extruded crosslinked ETFE insulation.

Colour to be specified when ordering (see page 35):
black, brown, red, orange, yellow, green, blue, violet, grey, white.
Note: the colours are light.

Main characteristics
Good physical, chemical and electrical properties:
› good penetration resistance under pressure,
› good radiation resistance,
› resist large overloads with no fire risk,
› resistant to most chemicals
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON’ REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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<td>1.57</td>
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<td>45.48</td>
</tr>
</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
# Shielded jacketed twisted pairs

**ESCC 3901 012**

**Crosslinked ETFE insulation, standard version**

Operating temperature: -100°C up to +200°C

Voltage rating: 600 VAC max.

## Construction

1. Stranded silver plated copper or copper alloy conductor,
2. Extruded crosslinked ETFE insulation,
3. Silver plated copper shield,
4. Extruded crosslinked ETFE insulation.

*Colour to be specified when ordering (see page 35): black, brown, red, orange, yellow, green, blue, violet, grey, white. Note: the colours are light.*

## Main characteristics

Good physical, chemical and electrical properties:
- good penetration resistance under pressure,
- good radiation resistance,
- resist large overloads with no fire risk,
- resistant to most chemicals
- suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SHEILD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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<tbody>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted triples

ESCC 3901 012
Crosslinked ETFE insulation, standard version
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Extruded crosslinked ETFE insulation,
3 - Silver plated copper shield,
4 - Extruded crosslinked ETFE insulation.

Colour to be specified when ordering (see page 36):
black, brown, red, orange, yellow, green, blue, violet, grey, white.
Note: the colours are light.

Main characteristics
Good physical, chemical and electrical properties:
› good penetration resistance under pressure,
› good radiation resistance,
› resist large overloads with no fire risk,
› resistant to most chemicals
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy

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CABLES & HARNESSES FOR SPACE APPLICATIONS - www.axon-cable.com
Shielded jacketed twisted quads

**ESCC 3901 012**

Crosslinked ETFE insulation, standard version

Operating temperature: -100°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**

1 - Stranded silver plated copper or copper alloy conductor,
2 - Extruded crosslinked ETFE insulation,
3 - Silver plated copper shield,
4 - Extruded crosslinked ETFE insulation.

Colour to be specified when ordering (see page 36):
black, brown, red, orange, yellow, green, blue, violet, grey, white.

Note: the colours are light.

**Main characteristics**

Good physical, chemical and electrical properties:

- good penetration resistance under pressure,
- good radiation resistance,
- resist large overloads with no fire risk,
- resistant to most chemicals
- suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
ESCC 3901 012 identification code

Colour to be specified when ordering
- Black = 0
- Brown = 1
- Red = 2
- Orange = 3
- Yellow = 4
- Green = 5
- Blue = 6
- Violet = 7
- Grey = 8
- White = 9

Single wires (PAGES 27 AND 31)

ESCC 3901 012 XX /x - x

AXON' REFERENCE
VARIANT
Colour of single wire
Jacket colour

Twisted pairs (PAGES 28 AND 32)

ESCC 3901 012 XX /x /x - x

AXON' REFERENCE
VARIANT
Colour of single wire 1
Colour of single wire 2
Jacket colour
ESCC 3901 012 identification code

Colour to be specified when ordering
- Black = 0
- Brown = 1
- Red = 2
- Orange = 3
- Yellow = 4
- Green = 5
- Blue = 6
- Violet = 7
- Grey = 8
- White = 9

Twisted triples (PAGES 29 AND 33)

ESCC 3901 012 XX /x /x /x - x

AXON® REFERENCE
VARIANT
Colour of single wire 1
Colour of single wire 2
Colour of single wire 3
Jacket colour

Twisted quads (PAGES 30 AND 34)

ESCC 3901 012 XX /x /x /x /x - x

AXON® REFERENCE
VARIANT
Colour of single wire 1
Colour of single wire 2
Colour of single wire 3
Colour of single wire 4
Jacket colour
Single wires

ESCC 3901 013

PTFE / Polyimide coating
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Extruded PTFE insulation,
3 - Polyimide protective coating.
Colour: Amber (other colours on request)

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and low spring back effect,
› resistant to most chemicals
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON' REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</table>

ESCC: silver plated copper - SPCA: silver plated copper alloy

SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted pairs

ESCC 3901 013

PTFE / Polyimide coating

Operating temperature: -100°C up to +200°C

Voltage rating: 600 VAC max.

Construction

1 - Stranded silver plated copper or copper alloy conductor,
2 - Extruded PTFE insulation,
3 - Polyimide protective coating.

Colour: Amber (other colours on request)

Main characteristics

Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and low spring back effect,
› resistant to most chemicals
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ø / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted triples

ESCC 3901 013
PTFE / Polyimide coating
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Extruded PTFE insulation,
3 - Polyimide protective coating.
Colour: Amber (other colours on request)

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and low spring back effect,
› resistant to most chemicals
› suited for thermal, mechanical or laser stripping.

<table>
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<th>AXON’ REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted quads

ESCC 3901 013

PTFE / Polyimide coating

Operating temperature: -100°C up to +200°C

Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Extruded PTFE insulation,
3 - Polyimide protective coating.

Colour: Amber (other colours on request)

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and low spring back effect,
› resistant to most chemicals
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Jacketed twisted pairs

ESCC 3901 013

PTFE / Polyimide coating

Operating temperature: -100°C up to +200°C
Voltage rating: 600 V AC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Extruded crosslinked ETFE insulation,
3 - Polyimide protective coating,
4 - Polyimide tape (1 layer).

Colour: Amber (wire insulation & jacket)

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and low spring back effect,
› resistant to most chemicals
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON’ REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Jacketed twisted triples

ESCC 3901 013

PTFE / Polyimide coating

Operating temperature: -100°C up to -200°C

Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Extruded PTFE insulation,
3 - Polyimide protective coating,
4 - Polyimide tape (1 layer).

Colour: Amber (wire insulation & jacket)

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and low spring back effect,
› resistant to most chemicals
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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ESCC: silver plated copper - SPCA: silver plated copper alloy
Jacketed twisted quads

ESCC 3901 013

PTFE / Polyimide coating
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Extruded PTFE insulation,
3 - Polyimide protective coating,
4 - Polyimide tape (1 layer).
Colour: Amber (wire insulation & jacket)

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and low spring back effect,
› resistant to most chemicals
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy

ESCC 3901 013 31
28  7X0.127 SPCA  0.42  0.089  225  0.82  2.25  8.17
ESCC 3901 013 32  26  7X0.16 SPCA  0.50  0.140  153  0.89  2.42  10.3
ESCC 3901 013 33  24  7X0.20 SPC  0.62  0.220  91.6  1.04  2.78  14.8
ESCC 3901 013 34  22  7X0.25 SPC  0.77  0.340  58.7  1.19  3.14  21.2
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ESCC 3901 013 68  18  19X0.25 SPC  1.29  0.930  21.6  1.85  4.59  51.2
ESCC 3901 013 69  16  19X0.285 SPC  1.44  1.230  17.3  2.23  5.5   70.9

SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed single wires

ESCC 3901 013

PTFE / Polyimide coating
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Extruded PTFE insulation,
3 - Polyimide protective coating,
4 - Silver plated copper shield,
5 - Polyimide tape (2 layers).
Colour: Amber (wire insulation & jacket)

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and low spring back effect,
› resistant to most chemicals
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted pairs

ESCC 3901 013

PTFE / Polyimide coating
Operating temperature: -100°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Extruded PTFE insulation,
3 - Polyimide protective coating,
4 - Silver plated copper shield,
5 - Polyimide tape (2 layers).
Colour: Amber (wire insulation & jacket)

Main characteristics
Excellent physical, chemical and electrical properties:
▷ excellent penetration resistance under pressure,
▷ resist large overloads with no fire risk,
▷ non-flammable,
▷ good flexibility and low spring back effect,
▷ resistant to most chemicals
▷ suited for thermal, mechanical or laser stripping.

<table>
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<tr>
<th>AXON’ REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
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<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted triples

**ESCC 3901 013**

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<th>PTFE / Polyimide coating</th>
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<td>Operating temperature: -100°C up to -200°C</td>
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<tr>
<td>Voltage rating: 600 VAC max.</td>
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**Construction**

1. Stranded silver plated copper or copper alloy conductor,
2. Extruded PTFE insulation,
3. Polyimide protective coating,
4. Silver plated copper shield,
5. Polyimide tape (2 layers).

**Colour:** Amber (wire insulation & jacket)

**Main characteristics**

Excellent physical, chemical and electrical properties:

- excellent penetration resistance under pressure,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility and low spring back effect,
- resistant to most chemicals
- suited for thermal, mechanical or laser stripping.

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**SPC:** silver plated copper - **SPCA:** silver plated copper alloy
Shielded jacketed twisted quads

ESCC 3901 013

PTFE / Polyimide coating
Operating temperature: -100°C up to -200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Extruded PTFE insulation,
3 - Polyimide protective coating,
4 - Silver plated copper shield,
5 - Polyimide tape (2 layers).

Colour: Amber (wire insulation & jacket)

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and low spring back effect,
› resistant to most chemicals
› suited for thermal, mechanical or laser stripping.

ESCC 3901 013 51
28 7X0.127 SPCA 0.42 0.089 225 0.07 0.82 2.45 12.8

ESCC 3901 013 52
26 7X0.16 SPCA 0.50 0.140 153 0.07 0.89 2.62 15.6

ESCC 3901 013 53
24 7X0.20 SPC 0.62 0.220 91.6 0.07 1.04 2.98 20.5

ESCC 3901 013 54
22 7X0.25 SPC 0.77 0.340 58.7 0.1 1.19 3.49 30.5

ESCC 3901 013 55
20 19X0.20 SPC 1.03 0.600 33.8 0.1 1.44 4.09 43.2

ESCC 3901 013 76
18 19X0.25 SPC 1.29 0.930 21.6 0.1 1.85 5.07 65.9

ESCC 3901 013 77
16 19X0.285 SPC 1.44 1.230 17.3 0.1 2.23 5.97 91.5

SPC: silver plated copper - SPCA: silver plated copper alloy
Single wires

ESCC 3901 018

CELLOFLON® / Polyimide / PTFE tape

Operating temperature: -200°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded PTFE tape (CELLOFLON®),
3 - Polyimide tape,
4 - PTFE tape.

Single wire colour: red
Except other specification: black, brown, orange, yellow, green, blue, violet, grey, white.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping,
› withstand atomic oxygen environment (ATOX).

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
**Twisted pairs**

**ESCC 3901 018**

**CELLOFLON® / Polyimide / PTFE tape**

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**

1. Stranded silver plated copper or copper alloy conductor,
2. Expanded PTFE tape (CELLOFLON®),
3. Polyimide tape,
4. PTFE tape.

Single wire colour: red and blue

Except other specification: black, brown, orange, yellow, green, violet, grey, white.

**Main characteristics**

Excellent physical, chemical and electrical properties:

- excellent penetration resistance under pressure,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping,
- withstand atomic oxygen environment (ATOX).

---

**Table**

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted triples

**ESCC 3901 018**

**CELLOFLON® / Polyimide / PTFE tape**

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**

1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded PTFE tape (CELLOFLON®),
3 - Polyimide tape,
4 - PTFE tape.

Single wire colour: red, blue and yellow

Except other specification: black, brown, orange, green, violet, grey, white.

**Main characteristics**

Excellent physical, chemical and electrical properties:

› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping,
› withstand atomic oxygen environment (ATOX).

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted quads

ESCC 3901 018

CELLOFLON® / Polyimide / PTFE tape

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded PTFE tape (CELLOFLON®),
3 - Polyimide tape,
4 - PTFE tape.

Single wire colour: red, blue, yellow and green
Except other specification: black, brown, orange, violet, grey, white.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping,
› withstand atomic oxygen environment (ATOX).

<table>
<thead>
<tr>
<th>AXON’ REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
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ESCC: silver plated copper - SPCA: silver plated copper alloy

SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted 5-core cables

ESCC 3901 018

CELLOFLON® / Polyimide / PTFE tape

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

Construction

1 - Filler,
2 - Stranded silver plated copper or copper alloy conductor,
3 - Expanded PTFE tape (CELLOFLON®),
4 - Polyimide tape,
5 - PTFE tape.

Single wire colour: red, blue, yellow, green and brown
Except other specification: black, orange, violet, grey, white.

Main characteristics

Excellent physical, chemical and electrical properties:
> excellent penetration resistance under pressure,
> resist large overloads with no fire risk,
> non-flammable,
> good flexibility,
> resistant to most chemicals,
> suited for thermal, mechanical or laser stripping,
> withstand atomic oxygen environment (ATOX).

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted 7-core cables

ESCC 3901 018

COLLOFLON® / Polyimide / PTFE tape

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded PTFE tape (CELLOFLON®),
3 - Polyimide tape,
4 - PTFE tape.

Single wire colour: red, blue, yellow, green, brown, grey and white
Except other specification: black, orange, violet.

Main characteristics
Excellent physical, chemical and electrical properties:
- excellent penetration resistance under pressure,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping,
- withstand atomic oxygen environment (ATOX).

<table>
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<th>AXON’ REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
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<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed single wires

ESCC 3901 018

CELLOFLON® / Polyimide / PTFE tape

Operating temperature: -200°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded PTFE tape (CELLOFLON®),
3 - Polyimide tape,
4 - PTFE tape,
5 - Silver plated copper shield,
6 - Extruded PFA insulation.

Single wire colour: red
Except other specification: black, brown, orange, yellow, green, blue, violet, grey, white.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping,
› withstand atomic oxygen environment (ATOX).

<table>
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<tr>
<th>AXON REFERENCE</th>
<th>AWG</th>
<th>STRANDING</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
### Shielded jacketed twisted pairs

**ESCC 3901 018**

**CELLOFLON® / Polyimide / PTFE tape**

- **Operating temperature:** -200°C up to +200°C
- **Voltage rating:** 600 VAC max.

#### Construction

1. Stranded silver plated copper or copper alloy conductor,
2. Expanded PTFE tape (CELLOFLON®),
3. Polyimide tape,
4. PTFE tape,
5. Silver plated copper shield,

*Single wire colour: red and blue
Except other specification: black, brown, orange, yellow, green, violet, grey, white.

#### Main characteristics

Excellent physical, chemical and electrical properties:
- Excellent penetration resistance under pressure,
- Resist large overloads with no fire risk,
- Non-flammable,
- Good flexibility,
- Resistant to most chemicals,
- Suited for thermal, mechanical or laser stripping,
- Withstand atomic oxygen environment (ATOX).

---

<table>
<thead>
<tr>
<th>AXON’ REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/km</th>
<th>SHIELDED STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET COLOUR</th>
<th>MAX. WEIGHT g/m</th>
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**SPC:** silver plated copper - **SPCA:** silver plated copper alloy
**Shielded jacketed twisted triples**

**ESCC 3901 018**

**CELLOFLON® / Polyimide / PTFE tape**

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**

1. Stranded silver plated copper or copper alloy conductor,
2. Expanded PTFE tape (CELLOFLON®),
3. Polyimide tape,
4. PTFE tape,
5. Silver plated copper shield,

Single wire colour: red, blue and yellow

Except other specification: black, brown, orange, green, violet, grey, white.

**Main characteristics**

Excellent physical, chemical and electrical properties:

- Excellent penetration resistance under pressure,
- Resist large overloads with no fire risk,
- Non-flammable,
- Good flexibility,
- Resistant to most chemicals,
- Suited for thermal, mechanical or laser stripping,
- Withstand atomic oxygen environment (ATOX).

**Table: AXON® Reference & Conductor**

<table>
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<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SHIELDED STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET COLOUR</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted quads

ESCC 3901 018

CELLOFLON® / Polyimide / PTFE tape

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded PTFE tape (CELLOFLON®),
3 - Polyimide tape,
4 - PTFE tape,
5 - Silver plated copper shield,
6 - Extruded PFA insulation.

Single wire colour: red, blue, yellow and green

Except other specification: black, brown, orange, violet, grey, white.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping,
› withstand atomic oxygen environment (ATOX).

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<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SHIELDED STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET COLOUR</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
**Shielded jacketed twisted 5-core cables**

**ESCC 3901 018**

**CELLOFLON® / Polyimide / PTFE tape**

*Operating temperature: -200°C up to +200°C*

*Voltage rating: 600 VAC max.*

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### Construction

1. Filler,
2. Stranded silver plated copper or copper alloy conductor,
3. Expanded PTFE tape (CELLOFLON®),
4. Polyimide tape,
5. PTFE tape,
6. Silver plated copper shield,
7. Extruded PFA insulation.

*Single wire colour: red, blue, yellow, green and brown*

*Except other specification: black, orange, violet, grey, white.*

---

### Main characteristics

- Excellent physical, chemical and electrical properties:
  - Excellent penetration resistance under pressure,
  - Resist large overloads with no fire risk,
  - Non-flammable,
  - Good flexibility,
  - Resistant to most chemicals,
  - Suited for thermal, mechanical or laser stripping,
  - Withstand atomic oxygen environment (ATOX).

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### Table

<table>
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<th>AWG</th>
<th>STRANDING</th>
<th>MAX.Ø mm</th>
<th>NOM. CROSS SECT.</th>
<th>MAX. DC RESISTANCE AT 20°C</th>
<th>SHIELDED STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET COLOUR</th>
<th>MAX. WEIGHT g/m</th>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted 7-core cables

**Construction**
1. Stranded silver plated copper or copper alloy conductor,
2. Expanded PTFE tape (CELLOFLON®),
3. Polyimide tape,
4. PTFE tape,
5. Silver plated copper shield,

Single wire colour: red, blue, yellow, green, brown, grey and white
Except other specification: black, orange, violet.

**Main characteristics**
Excellent physical, chemical and electrical properties:
- excellent penetration resistance under pressure,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping,
- withstand atomic oxygen environment (ATOX).

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/km</th>
<th>SHIELDED STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>JACKET COLOUR</th>
<th>MAX. WEIGHT g/m</th>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Single wires

**ESCC 3901 019**

**CELLOFLON® / Polyimide tape**

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**

1. Stranded silver plated copper or copper alloy conductor,
2. Expanded PTFE tape (CELLOFLON®),
3. Polyimide tape,
4. Polyimide tape.

*Colour: Amber (except other specification)*

**Main characteristics**

Excellent physical, chemical and electrical properties:

- excellent penetration resistance under pressure,
- excellent radiation resistance,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON’ REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/km</th>
<th>MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted pairs

ESCC 3901 019
CELLOFLON® / Polyimide tape
Operating temperature: -200°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded PTFE tape (CELLOFLON®),
3 - Polyimide tape,
4 - Polyimide tape.
Colour: Amber (except other specification)

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy

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Twisted triples

ESCC 3901 019
CELLOFLON® / Polyimide tape

Operating temperature: -200°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded PTFE tape (CELLOFLON®),
3 - Polyimide tape,
4 - Polyimide tape.
Colour: Amber (except other specification)

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>AWG</th>
<th>STRANDING</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</thead>
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SPC: silver plated copper - SPCA: silver plated copper alloy
**Twisted quads**

**ESCC 3901 019**

**CELLOFLON® / Polyimide tape**

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**

1. Stranded silver plated copper or copper alloy conductor,
2. Expanded PTFE tape (CELLOFLON®),
3. Polyimide tape,
4. Polyimide tape.

*Colour: Amber (except other specification)*

**Main characteristics**

Excellent physical, chemical and electrical properties:
- excellent penetration resistance under pressure,
- excellent radiation resistance,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</thead>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted 5-core cables

ESCC 3901 019

CELLOFLON® / Polyimide tape

Operating temperature: -200°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - PTFE filler.
2 - Stranded silver plated copper or copper alloy conductor,
3 - Expanded PTFE tape (CELLOFLON®),
4 - Polyimide tape,
5 - Polyimide tape.

Colour: Amber (except other specification)

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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<td>260</td>
<td>0.87</td>
<td>2.40</td>
<td>7.80</td>
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<td>172</td>
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<td>37</td>
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<td>4.00</td>
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</tr>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted 6-core cables

ESCC 3901 019

CELLOFLON® / Polyimide tape

Operating temperature: -200°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - PTFE filler,
2 - Stranded silver plated copper or copper alloy conductor,
3 - Expanded PTFE tape (CELLOFLON®),
4 - Polyimide tape,
5 - Polyimide tape.

Colour: Amber (except other specification)

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

ESCC 3901 019 38
38 7x0.127 SPCA 0.47 0.09 261 0.87 2.60 9.60
ESCC 3901 019 39
26 19x0.10 SPCA 0.57 0.15 172 0.96 2.90 13.10
ESCC 3901 019 40
24 19x0.12 SPCA 0.58 0.25 124 1.13 3.40 17.60
ESCC 3901 019 41
22 19x0.15 SPC 0.76 0.40 65 1.25 3.70 26.60
ESCC 3901 019 42
20 19x0.20 SPC 0.99 0.60 38 1.48 4.40 48.20

SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted 7-core cables

ESCC 3901 019

CELLOFLON® / Polyimide tape

Operating temperature: -200°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded PTFE tape (CELLOFLON®),
3 - Polyimide tape,
4 - Polyimide tape.

Colour: Amber (except other specification)

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON' REFERENCE</th>
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<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
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<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed single wires

**ESCC 3901 019**

**CELLOFLON® / Polymide tape**

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**

1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded PTFE tape (CELLOFLON®),
3 - Polymide tape,
4 - Polymide tape,
5 - Silver plated copper helicoidal shield,
6 - Polymide tape,
7 - Polymide tape.

Colour: Amber (except other specification)

**Main characteristics**

Excellent physical, chemical and electrical properties:

- excellent penetration resistance under pressure,
- excellent radiation resistance,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
# Shielded jacketed twisted pairs

**ESCC 3901 019**

**CELLOFLON® / Polymide tape**

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

## Construction

1. Stranded silver plated copper or copper alloy conductor,
2. Expanded PTFE tape (CELLOFLON®),
3. Polymide tape,
4. Polymide tape,
5. Silver plated copper helicoidal shield,
6. Polymide tape,
7. Polymide tape.

Colour: Amber (except other specification)

## Main characteristics

Excellent physical, chemical and electrical properties:

- excellent penetration resistance under pressure,
- excellent radiation resistance,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping.

---

**Construction Details**

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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<td>5.80</td>
</tr>
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SPC: silver plated copper - SPCA: silver plated copper alloy
**Shielded jacketed twisted triples**

**ESCC 3901 019**

**CELLOFLON® / Polymide tape**

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

![Diagram of shielded jacketed twisted triples](image)

**Construction**

1. Stranded silver plated copper or copper alloy conductor,
2. Expanded PTFE tape (CELLOFLON®),
3. Polymide tape,
4. Polymide tape,
5. Silver plated copper helicoidal shield,
6. Polymide tape,
7. Polymide tape.

Colour: Amber (except other specification)

**Main characteristics**

Excellent physical, chemical and electrical properties:
- excellent penetration resistance under pressure,
- excellent radiation resistance,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping.

---

**Axon® Reference**

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<tr>
<th>AXON® Reference</th>
<th>AWG</th>
<th>Stranding Nb x Ø mm</th>
<th>Max. Ø mm</th>
<th>Nom. Cross Section mm²</th>
<th>Max. DC Resistance at 20°C Ω/km</th>
<th>Shield Strand Ø mm</th>
<th>Single Wire Max. Ø mm</th>
<th>Overall Max. Ø mm</th>
<th>Max. Weight g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted quads

**ESCC 3901 019**

**CELLOFLO® / Polyimide tape**

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**

1. Stranded silver plated copper or copper alloy conductor,
2. Expanded PTFE tape (CELLOFLO®),
3. Polyimide tape,
4. Polyimide tape,
5. Silver plated copper helicoidal shield,
6. Polyimide tape,
7. Polyimide tape.

Colour: Amber (except other specification)

**Main characteristics**

Excellent physical, chemical and electrical properties:
- excellent penetration resistance under pressure,
- excellent radiation resistance,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping.

### AXON® REFERENCE

<table>
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<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted 5-core cables

ESCC 3901 019

CELOFLON® / Polyimide tape

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

Construction

1 - PTFE filler,
2 - Stranded silver plated copper or copper alloy conductor,
3 - Expanded PTFE tape (CELOFLON®),
4 - Polyimide tape,
5 - Polyimide tape,
6 - Silver plated copper helicoidal shield,
7 - Polyimide tape,
8 - Polyimide tape.

Colour: Amber (except other specification)

Main characteristics

Excellent physical, chemical and electrical properties:

› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted 6-core cables

ESCC 3901 019

CELLOFLON® / Polyimide tape

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

Construction

1 - PTFE filler,
2 - Stranded silver plated copper or copper alloy conductor,
3 - Expanded PTFE tape (CELLOFLON®),
4 - Polyimide tape,
5 - Polyimide tape,
6 - Silver plated copper helicoidal shield,
7 - Polyimide tape,
8 - Polyimide tape.

Colour: Amber (except other specification)

Main characteristics

Excellent physical, chemical and electrical properties:
> excellent penetration resistance under pressure,
> excellent radiation resistance,
> resist large overloads with no fire risk,
> non-flammable,
> good flexibility,
> resistant to most chemicals,
> suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON' REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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<td>0.079</td>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted 7-core cables

ESCC 3901 019

CELLOFLON® / Polymide tape

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded PTFE tape (CELLOFLON®),
3 - Polymide tape,
4 - Polymide tape,
5 - Silver plated copper helicoidal shield,
6 - Polymide tape,
7 - Polymide tape.

Colour: Amber (except other specification)

Main characteristics
Excellent physical, chemical and electrical properties:
> excellent penetration resistance under pressure,
> excellent radiation resistance,
> resist large overloads with no fire risk,
> non-flammable,
> good flexibility,
> resistant to most chemicals,
> suited for thermal, mechanical or laser stripping.

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<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy

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CABLES & HARNESS FOR SPACE APPLICATIONS - www.axon-cable.com
Shielded jacketed single wires

ESCC 3901 021
CELLOFLON® / Polyimide tape / Drain / Shielding / Jacket
Operating temperature: -200°C up to +200°C
Voltage rating: 600 VAC max.

**Construction**
1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded PTFE tape (CELLOFLON®),
3 - Polyimide tape,
4 - Polyimide tape,
5 - Drain wire,
6 - Silver plated copper helicoidal shield,
7 - Polyimide tape,
8 - Polyimide tape.

Single wire colour: Natural (or other specification) – Jacket colour: Amber (natural colour of polyimide tape)

**Main characteristics**
- Excellent physical, chemical and electrical properties:
  - excellent penetration resistance under pressure,
  - excellent radiation resistance,
  - resist large overloads with no fire risk,
  - non-flammable,
  - good flexibility,
  - resistant to most chemicals,
  - suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>DRAIN &amp; CONDUCTOR</th>
<th>CONDUCTOR</th>
<th>SHEILD</th>
<th>SINGLE</th>
<th>OVERALL</th>
<th>MAX. WEIGHT</th>
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<td>STRANDING Nb x Ø mm</td>
<td>MAX. Ø mm</td>
<td>NOM. CROSS SECTION mm²</td>
<td>MAX. DC RESISTANCE AT 20°C Ω / km</td>
<td>MAX. Ø mm</td>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted pairs

**ESCC 3901 021**

**CELLOFLON® / Polyimide tape / Drain / Shielding / Jacket**

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

Construction
1. Stranded silver plated copper or copper alloy conductor,
2. Expanded PTFE tape (CELLOFLON®),
3. Polyimide tape,
4. Polyimide tape,
5. Drain wire,
6. Silver plated copper helicoidal shield,
7. Polyimide tape,
8. Polyimide tape.

Single wire colour: Red and natural (or other specification)
Jacket colour: Amber (natural colour of polyimide tape)

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent radiation resistance,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>DRAIN &amp; CONDUCTOR</th>
<th>CONDUCTOR</th>
<th>SHIELD STRAND</th>
<th>SINGLE WIRE</th>
<th>OVERALL</th>
<th>MAX. WEIGHT</th>
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<td></td>
<td>AWG</td>
<td>STRANDING Nb x Ø mm</td>
<td>MAX. Ø mm</td>
<td>NOM. CROSS SECTION mm²</td>
<td>MAX. DC RESISTANCE AT 20°C Ω/km</td>
<td>MAX. Ø mm</td>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted triples

**ESCC 3901 021**

**CELLOFLON®** / Polyimide tape / Drain / Shielding / Jacket

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**

1. Stranded silver plated copper or copper alloy conductor,
2. Expanded PTFE tape (CELLOFLON®),
3. Polyimide tape,
4. Polyimide tape,
5. Drain wire,
6. Silver plated copper helicoidal shield,
7. Polyimide tape,
8. Polyimide tape.

Single wire colour: Red, natural and yellow (or other specification)

Jacket colour: Amber (natural colour of polyimide tape)

**Main characteristics**

Excellent physical, chemical and electrical properties:

- excellent penetration resistance under pressure,
- excellent radiation resistance,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping.

---

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>DRAIN &amp; CONDUCTOR</th>
<th>CONDUCTOR</th>
<th>SHIELD STRAND</th>
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<th>MAX. WEIGHT</th>
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<td>0.60</td>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted quads

**ESCC 3901 021**

**CELLOFLON® / Polyimide tape / Drain / Shielding / Jacket**

Operating temperature: -200°C up to +200°C
Voltage rating: 600 VAC max.

**Construction**

1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded PTFE tape (CELLOFLON®),
3 - Polyimide tape,
4 - Drain wire,
5 - Polyimide tape,
6 - Silver plated copper helicoidal shield,
7 - Polyimide tape,
8 - Polyimide tape.

Single wire colour: Red, natural, yellow and green (or other specification)
Jacket colour: Amber (natural colour of polyimide tape)

**Main characteristics**

Excellent physical, chemical and electrical properties:
- excellent penetration resistance under pressure,
- excellent radiation resistance,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>DRAIN &amp; CONDUCTOR</th>
<th>CONDUCTOR</th>
<th>SHIELD MAX. Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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<td>1.48</td>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted 5-core cables

**ESCC 3901 021**

CELLOFLON® / Polyimide tape / Drain / Shielding / Jacket

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**

1 - Filler,
2 - Stranded silver plated copper or copper alloy conductor,
3 - Expanded PTFE tape (CELLOFLON®),
4 - Polyimide tape,
5 - Drain wire,
6 - Polyimide tape,
7 - Silver plated copper helicoidal shield,
8 - Polyimide tape,
9 - Polyimide tape.

Single wire colour: Red, natural, yellow, green and brown (or other specification)

Jacket colour: Amber (natural colour of polyimide tape)

**Main characteristics**

Excellent physical, chemical and electrical properties:

- Excellent penetration resistance under pressure,
- Excellent radiation resistance,
- Resist large overloads with no fire risk,
- Non-flammable,
- Good flexibility,
- Resistant to most chemicals,
- Suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SHIELD STRAND MAX. Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted 6-core cables

**ESCC 3901 021**

**CELLOFLON® / Polyimide tape / Drain / Shielding / Jacket**

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

**Construction**

1. Filler,
2. Stranded silver plated copper or copper alloy conductor,
3. Expanded PTFE tape (CELLOFLON®),
4. Polyimide tape,
5. Drain wire,
6. Polyimide tape,
7. Silver plated copper helicoidal shield,
8. Polyimide tape,

Single wire colour: Red, natural, yellow, green, brown and black (or other specification)

Jacket colour: Amber (natural colour of polyimide tape)

**Main characteristics**

Excellent physical, chemical and electrical properties:

- Excellent penetration resistance under pressure,
- Excellent radiation resistance,
- Resist large overloads with no fire risk,
- Non-flammable,
- Good flexibility,
- Resistant to most chemicals,
- Suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON' REFERENCE</th>
<th>DRAIN &amp; CONDUCTOR</th>
<th>CONDUCTOR</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/km</th>
<th>SHIELD STRAND MAX. Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted 7-core cables

ESCC 3901 021

CELLOFLON® / Polyimide tape / Drain / Shielding / Jacket

Operating temperature: -200°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded PTFE tape (CELLOFLON®),
3 - Polyimide tape,
4 - Drain wire,
5 - Polyimide tape,
6 - Silver plated copper helicoidal shield,
7 - Polyimide tape,
8 - Polyimide tape.

Single wire colour: Red, natural, yellow, green, brown, black and orange (or other specification)
Jacket colour: Amber (natural colour of polyimide tape)

Main characteristics
Excellent physical, chemical and electrical properties:
- excellent penetration resistance under pressure,
- excellent radiation resistance,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>DRAIN &amp; CONDUCTOR</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/km</th>
<th>SHIELD STRAND MAX. Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Single wires

ESCC 3901 024

Abrasion resistant PTFE tape
Operating temperature: -200°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Abrasion resistant PTFE tape,
3 - Abrasion resistant PTFE tape.

Single wire colour: Red
Except other specification: black, brown, orange, yellow, green, blue, violet, grey, white.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent abrasion resistance,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and very low spring back effect,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

### AXON® REFERENCE

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<tr>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω/km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted pairs

ESCC 3901 024

Abrasive resistant PTFE tape

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

Construction

1 - Stranded silver plated copper or copper alloy conductor,
2 - Abrasion resistant PTFE tape,
3 - Abrasion resistant PTFE tape.

Single wire colour: Red and blue

Except other specification: black, brown, orange, yellow, green, violet, grey, white.

Main characteristics

Excellent physical, chemical and electrical properties:

› excellent penetration resistance under pressure,
› excellent abrasion resistance,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and very low spring back effect,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON’ REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Twisted triples

**ESCC 3901 024**

Abrasion resistant PTFE tape
Operating temperature: -200°C up to +200°C
Voltage rating: 600 VAC max.

**Construction**
1. Stranded silver plated copper or copper alloy conductor,
2. Abrasion resistant PTFE tape,
3. Abrasion resistant PTFE tape.

*Single wire colour: Red, blue and yellow
Except other specification: black, brown, orange, green, violet, grey, white.*

**Main characteristics**
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent abrasion resistance,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and very low spring back effect,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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*SPC: silver plated copper - SPCA: silver plated copper alloy*
Twisted quads

ESCC 3901 024

Abrasive resistant PTFE tape

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Abrasion resistant PTFE tape,
3 - Abrasion resistant PTFE tape.

Single wire colour: Red, blue, yellow and green

Except other specification: black, brown, orange, violet, grey, white.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent abrasion resistance,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and very low spring back effect,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
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<th>AXON REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
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<td>3.00</td>
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SPC: silver plated copper - SPCA: silver plated copper alloy

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CABLES & HARNESSES FOR SPACE APPLICATIONS - www.axon-cable.com
Shielded jacketed single wires

**ESCC 3901 024**

Abrasion resistant PTFE tape

Operating temperature: -200°C up to +200°C

Voltage rating: 600 VAC max.

Construction

1. Stranded silver plated copper or copper alloy conductor,
2. Abrasion resistant PTFE tape,
3. Abrasion resistant PTFE tape,
4. Silver plated copper helicoidal shield,
5. Expanded PTFE tape,

Single wire colour: Red

Except other specification: black, brown, orange, yellow, green, blue, violet, grey, white.

Jacket colour: White

Main characteristics

Excellent physical, chemical and electrical properties:
- excellent penetration resistance under pressure,
- excellent abrasion resistance,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility and very low spring back effect,
- suited for thermal, mechanical or laser stripping.

<table>
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<th>AXON’ REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>CONDUCTOR</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SHIELD STRAND MAX. Ø mm</th>
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<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted pairs

ESCC 3901 024
Abrasión resistant PTFE tape
Operating temperature: -200°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Abrasion resistant PTFE tape,
3 - Abrasion resistant PTFE tape,
4 - Silver plated copper helicoidal shield,
5 - Expanded PTFE tape,
6 - Extruded PFA insulation.

Single wire: Red and blue
Except other specification: black, brown, orange, yellow, green, violet, grey, white.
Jacket colour: White

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent abrasion resistance,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and very low spring back effect,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SHIELD STRAND MAX. Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted triples

ESCC 3901 024

Abrasion resistant PTFE tape
Operating temperature: -200°C up to +200°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Abrasion resistant PTFE tape,
3 - Abrasion resistant PTFE tape,
4 - Silver plated copper helicoidal shield,
5 - Expanded PTFE tape,
6 - Extruded PFA insulation.
Single wire colour: Red, blue and yellow
Except other specification: black, brown, orange, green, violet, grey, white.
Jacket colour: White

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› excellent abrasion resistance,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility and very low spring back effect,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb x Ø mm</th>
<th>CONDUCTOR</th>
<th>MAX. Ø mm</th>
<th>NOM. CROSS SECTION mm²</th>
<th>MAX. DC RESISTANCE AT 20°C Ω / km</th>
<th>SHIELD STRAND MAX. Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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<tbody>
<tr>
<td>ESCC 3901 024 49</td>
<td>30</td>
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<td>0.32</td>
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<td>3.00</td>
<td>7.0</td>
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</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
### Shielded jacketed twisted quads

**ESCC 3901 024**

- **Abrasion resistant PTFE tape**
- **Operating temperature:** -200°C up to +200°C
- **Voltage rating:** 600 VAC max.

#### Construction
1. Stranded silver plated copper or copper alloy conductor,
2. Abrasion resistant PTFE tape,
3. Abrasion resistant PTFE tape,
4. Silver plated copper helicoidal shield,
5. Expanded PTFE tape,

Single wire colour: Red, blue, yellow and green
Except other specification: black, brown, orange, violet, grey, white.
Jacket colour: White

#### Main characteristics
Excellent physical, chemical and electrical properties:
- Excellent penetration resistance under pressure,
- Excellent abrasion resistance,
- Resist large overloads with no fire risk,
- Non-flammable,
- Good flexibility and very low spring back effect,
- Resistant to most chemicals,
- Suited for thermal, mechanical or laser stripping.

<table>
<thead>
<tr>
<th>AXON® Reference</th>
<th>AWG</th>
<th>Stranding Nb x Ø mm</th>
<th>Max. Ø mm</th>
<th>Nom. Cross Section mm²</th>
<th>Max. DC Resistance at 20°C Øf/km</th>
<th>Shield Strand Max. Ø mm</th>
<th>Single Wire Max. Ø mm</th>
<th>Bundle Max. Ø mm</th>
<th>Max. Weight g/m</th>
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<tbody>
<tr>
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<td>171</td>
<td>0.079</td>
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<td>3.0</td>
<td>15.7</td>
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<tr>
<td>ESCC 3901 024 60</td>
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<td>0.079</td>
<td>3.00</td>
<td>7.8</td>
<td>151.5</td>
</tr>
</tbody>
</table>

SPC: Silver plated copper - SPCA: Silver plated copper alloy
Coaxial cable

ESCC 3902 002

CELLOFLON® dielectric

Operating temperature: -200°C up to +180°C.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Expanded microporous PTFE (CELLOFLON® - colour: natural),
3 - Silver plated copper braided shield,
4 - PFA jacket.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping,
› controlled impedance for optimal data transmission.

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>ZC (Ω)</th>
<th>AWG</th>
<th>MAX. Ø mm</th>
<th>MAX. DC RESISTANCE AT 20°C (Ω/km)</th>
<th>NOM. Ø mm</th>
<th>MAX. Ø mm</th>
<th>JACKET COLOUR</th>
<th>MAX. WEIGHT g/m</th>
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</thead>
<tbody>
<tr>
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<td>2.9</td>
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</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
### Construction

1. Stranded silver plated copper or copper alloy conductor,
2. Expanded microporous PTFE (CELLOFLON® - colour: natural),
3. Silver plated copper braided shield,
4. PFA jacket (colour: natural),
5. Wrapped foil shield (only var. 13),
6. Silver plated copper braided shield,
7. Extruded PFA insulation.

### Main characteristics

Excellent physical, chemical and electrical properties:
- excellent penetration resistance under pressure,
- resist large overloads with no fire risk,
- non-flammable,
- good flexibility,
- resistant to most chemicals,
- suited for thermal, mechanical or laser stripping,
- controlled impedance for optimal data transmission.

### Specifications

<table>
<thead>
<tr>
<th>AXON\N REFERENCE</th>
<th>ZC</th>
<th>INNER CONDUCTOR</th>
<th>DIELECTRIC</th>
<th>COAXIAL CABLE</th>
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<tbody>
<tr>
<td></td>
<td>AWG</td>
<td>MAX. Ø mm</td>
<td>MAX. DC RESISTANCE AT 20°C Ω / km</td>
<td>NOM. Ø mm</td>
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<td>4.33</td>
</tr>
</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Databus cable

ESCC 3902 002

CELLOFLON® dielectric

Operating temperature: -200°C up to +180°C.

Construction
1 - Stranded silver plated copper or copper alloy conductor,
2 - Filler: Expanded PTFE (CELLOFLON® - colour: natural),
3 - Dielectric: Expanded PTFE (CELLOFLON® - colour: natural - except var. 20: wrapped PTFE),
4 - Binder (only var. 22): wrapped expanded PTFE (CELLOFLON® - colour: natural),
5 - Stranded silver plated copper or copper alloy drain wire placed longitudinally,
6 - Silver plated copper shield,
7 - PFA jacket.

Main characteristics
Excellent physical, chemical and electrical properties:
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping,
› controlled impedance for optimal data transmission.

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>ZC Ω</th>
<th>INNER CONDUCTOR</th>
<th>DIELECTRIC</th>
<th>JACKET</th>
<th>MAX. WEIGHT g/m</th>
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</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Spacewire quadribus cable

ESCC 3902 003

CELLOFLON® dielectric / PFA jacket

Operating temperature: -200°C up to +180°C.

Construction
1 - Stranded silver plated copper alloy conductor,
2 - Dielectric: Expanded microporous PTFE,
3 - Filler: Expanded microporous PTFE,
4 - Binder (only var. 02): Wrapped microporous PTFE,
5 - Silver plated copper braided shield,
6 - PFA jacket,
7 - Filler: Expanded microporous PTFE,
8 - Binder: Wrapped microporous PTFE,
9 - Silver plated copper braided shield,
10 - PFA jacket.

Main characteristics
Excellent physical, chemical and electrical properties:
› Designed to meet nominal transmission performances of Spacewire protocol,
› excellent penetration resistance under pressure,
› resist large overloads with no fire risk,
› non-flammable,
› good flexibility,
› resistant to most chemicals,
› suited for thermal, mechanical or laser stripping,
› controlled impedance for optimal data transmission.

<table>
<thead>
<tr>
<th>AXON' REFERENCE</th>
<th>ZC</th>
<th>INNER CONDUCTOR</th>
<th>SINGLE WIRE</th>
<th>SYMMETRIC CABLE SHIELD STRAND</th>
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<th>ROUND CABLE</th>
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<td>0.076 3.1 15 0.102 0.102 9 Blue 115 120</td>
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</tr>
</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy