ESA wires & cables and AXALU® aluminium wires

www.axon-cable.com
ESA wires & cables / AXALU®

ESA wires & cables

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**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.

### ESCC wires and cables selection guide

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<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><strong>ESCC 3901 001</strong></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 5, EUROSTAR 3000</td>
</tr>
<tr>
<td><strong>ESCC 3901 002</strong></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>
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<tr>
<td><strong>ESCC 3901 012</strong></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><strong>ESCC 3901 013</strong></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>
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<tr>
<td><strong>ESCC 3901 018</strong></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><strong>ESCC 3901 019</strong></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><strong>ESCC 3901 021</strong></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>
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<tr>
<td><strong>ESCC 3901 024</strong></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>
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</table>

### AXALU® aluminium cables selection guide

<table>
<thead>
<tr>
<th>PRODUCT FAMILY</th>
<th>DESCRIPTION</th>
<th>OPERATING TEMPERATURE</th>
<th>APPLICATIONS</th>
<th>APPROVED SPACE PROJECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AXALU®</strong></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. Weightsaving aluminium conductors.</td>
<td>SPACEBUS 2000 &amp; 4000</td>
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</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.

<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>
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<tbody>
<tr>
<td>ESCC 3901 001 47</td>
<td>28</td>
<td>19X0.08 SPCA</td>
<td>0.43</td>
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<td>242</td>
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<td>19X0.10 SPCA</td>
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<td>148</td>
<td>0.84</td>
<td>Black</td>
<td>2.05</td>
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<td>19X0.12 SPCA</td>
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<td>0.95</td>
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<td>1.35</td>
<td>Green</td>
<td>6.65</td>
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<td>19X0.25 SPC</td>
<td>1.29</td>
<td>0.93</td>
<td>20.6</td>
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<td>9.98</td>
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<td>19X0.30 SPC</td>
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<td>45X0.30 SPC</td>
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<td>3.20</td>
<td>6.03</td>
<td>2.80</td>
<td>Khaki-beige</td>
<td>32.1</td>
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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
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>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>
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<td>ESCC 3901 001 32</td>
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<td>19X0.30 SPC</td>
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<td>1.30</td>
<td>15.0</td>
<td>1.85</td>
<td>Brown</td>
<td>3.80</td>
<td>Amber &amp; brown</td>
<td>30.7</td>
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<tr>
<td>ESCC 3901 001 33</td>
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<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>
<td>Amber &amp; white</td>
<td>43.1</td>
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<td>ESCC 3901 001 34</td>
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<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>
<td>Amber &amp; white</td>
<td>70.6</td>
</tr>
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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.

ESCC 3901 001 35 16 19 X 0.30 SPC 1.53 1.30 15.0 1.85 Brown 4.08 Amber & Brown 46.1
ESCC 3901 001 36 14 27 X 0.30 SPC 1.87 1.90 10.6 2.19 Khaki-beige 4.82 Amber & White 64.6
ESCC 3901 001 37 12 45 X 0.30 SPC 2.40 3.20 6.33 2.8 Khaki-beige 6.15 Amber & White 106

Stripe width: 0.6mm ± 30%
Space between two stripes: 1.0mm ± 30%

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.

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### AXON' REFERENCE

<table>
<thead>
<tr>
<th>AWG</th>
<th>SPC: silver plated copper</th>
<th>NOM. CROSS SECTION</th>
<th>MAX. DC RESISTANCE AT 20°C</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>
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<tr>
<td>ESCC 3901 001 38</td>
<td>16</td>
<td>19x0.30</td>
<td>1.53</td>
<td>1.30</td>
<td>14.30</td>
<td>0.10</td>
<td>1.85</td>
<td>Brown</td>
<td>2.23</td>
</tr>
<tr>
<td>ESCC 3901 001 39</td>
<td>14</td>
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<td>1.90</td>
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<td>2.63</td>
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<td>0.15</td>
<td>2.80</td>
<td>Khaki-beige</td>
<td>3.30</td>
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</tbody>
</table>

Stripe width: 0.6mm ± 30%
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.

ESCC 3901 001 41 16 19X0.30 SPC 1.53 1.30 15.00 0.15 1.85 Brown 4.26 White & Brown 41.8
ESCC 3901 001 42 14 27X0.30 SPC 1.87 1.90 10.60 0.15 2.19 Khaki-beige 5.07 Light blue & White 55.6
ESCC 3901 001 43 12 45X0.30 SPC 2.40 3.20 6.33 0.20 2.80 Khaki-beige 6.30 Light blue & White 90.5

Stripe width: 0.6mm ± 30%
Space between two stripes: 1.0mm ± 30%

SPC: silver plated copper
Shielded jacketed 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 - 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>CONDUCTOR</th>
<th>STRANDING</th>
<th>MAX. CROSS SECTION</th>
<th>MAX. DC RESISTANCE AT 20°C</th>
<th>SHEILD STRAND</th>
<th>SINGLE WIRE MAX.</th>
<th>SINGLE WIRE COLOUR</th>
<th>OVERALL MAX.</th>
<th>JACKET &amp; STRIPE COLOUR</th>
<th>MAX. WEIGHT</th>
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<td>0.15</td>
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<td>Brown</td>
<td>4.54</td>
<td>White &amp; Brown</td>
<td>58.2</td>
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<td>1.90</td>
<td>0.20</td>
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<td>Khaki-beige</td>
<td>5.40</td>
<td>Light blue &amp; White</td>
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<td>2.80</td>
<td>Khaki-beige</td>
<td>6.72</td>
<td>Light blue &amp; White</td>
<td>127.3</td>
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</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 α / km</th>
<th>MAX. Ø mm</th>
<th>SINGLE WIRE COLOUR</th>
<th>MAX. WEIGHT g/m</th>
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<tbody>
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<td>19X0.08 SPCA</td>
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<td>0.10</td>
<td>242</td>
<td>0.68</td>
<td>Brown</td>
<td>1.23</td>
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<td>ESCC 3901 002 56</td>
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<td>19X0.10 SPCA</td>
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<td>0.15</td>
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<td>Red</td>
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<td>19X0.20 SPC</td>
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<td>1.28</td>
<td>Green</td>
<td>6.49</td>
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<tr>
<td>ESCC 3901 002 60</td>
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<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>
</tr>
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</table>

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>CONDUCTOR</th>
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<tr>
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<td>ESCC 3901 002 33</td>
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<td>ESCC 3901 002 34</td>
<td>20</td>
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<tr>
<td>ESCC 3901 002 35</td>
<td>18</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,
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Main characteristics
Excellent physical, chemical and electrical properties:
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<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 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>
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<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>
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<td>19x0.10 SPCA</td>
<td>0.53</td>
<td>0.15</td>
<td>155</td>
<td>0.78</td>
<td>Black</td>
<td>1.76</td>
<td>Amber &amp; 3 narrow black</td>
<td>6.45</td>
<td></td>
</tr>
<tr>
<td>ESCC 3901 002 37</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>1.97</td>
<td>Amber &amp; 3 narrow white</td>
<td>8.81</td>
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</tr>
<tr>
<td>ESCC 3901 002 38</td>
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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>
<td>2.40</td>
<td>Amber &amp; 3 narrow red</td>
<td>14.30</td>
<td></td>
</tr>
<tr>
<td>ESCC 3901 002 39</td>
<td>20</td>
<td>19x0.20 SPC</td>
<td>1.04</td>
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<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>
<tr>
<td>ESCC 3901 002 40</td>
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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>
<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 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,
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.

<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 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>0.68</td>
<td>Brown</td>
<td>1.07</td>
<td>White &amp; 1 narrow</td>
<td>3.05</td>
</tr>
<tr>
<td>ESCC 3901 002 41</td>
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<td>19x0.10 SPCA</td>
<td>0.53</td>
<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>
</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>
</tr>
<tr>
<td>ESCC 3901 002 43</td>
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<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>
</tr>
<tr>
<td>ESCC 3901 002 44</td>
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<td>19x0.20 SPC</td>
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<td>32.2</td>
<td>0.08</td>
<td>1.28</td>
<td>Green</td>
<td>1.63</td>
<td>White &amp; 1 narrow</td>
<td>9.43</td>
</tr>
<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>Yellow</td>
<td>1.92</td>
<td>White &amp; 1 narrow</td>
<td>13.8</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 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>
<td>28</td>
<td>19x0.08 SPCA</td>
<td>0.43</td>
<td>0.10</td>
<td>254</td>
<td>0.08</td>
<td>0.68</td>
<td>Brown</td>
<td>1.80</td>
<td>White &amp; 2 narrow</td>
<td>5.70</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</td>
<td>8.00</td>
</tr>
<tr>
<td>ESCC 3901 002 47</td>
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<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</td>
<td>10.50</td>
</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</td>
<td>14.80</td>
</tr>
<tr>
<td>ESCC 3901 002 49</td>
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<td>19x0.20 SPC</td>
<td>1.04</td>
<td>0.60</td>
<td>33.8</td>
<td>0.10</td>
<td>1.28</td>
<td>Green</td>
<td>3.03</td>
<td>White &amp; 2 narrow</td>
<td>20.20</td>
</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</td>
<td>29.60</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 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>
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<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>1.92</td>
<td>White</td>
<td>8.10</td>
</tr>
<tr>
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<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>
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<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>
</tr>
<tr>
<td>ESCC 3901 002 55</td>
<td>18</td>
<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>CONDUCTOR</th>
<th>NW</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 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>2.15</td>
<td>White &amp; 1 wide</td>
<td>10.15</td>
<td></td>
</tr>
<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>
<td></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>
<td></td>
</tr>
<tr>
<td>ESCC 3901 002 70</td>
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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>
<td></td>
</tr>
<tr>
<td>ESCC 3901 002 71</td>
<td>20</td>
<td>19x0.20 SPC</td>
<td>1.04</td>
<td>0.60</td>
<td>33.8</td>
<td>0.15</td>
<td>1.28</td>
<td>Green</td>
<td>3.70</td>
<td>White &amp; 1 wide</td>
<td>38.80</td>
<td></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.

<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 72</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>2.27</td>
<td>White &amp; 1 wide, 1 narrow □</td>
<td>12.10</td>
<td></td>
</tr>
<tr>
<td>ESCC 3901 002 73</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>2.56</td>
<td>White &amp; 1 wide, 1 narrow □</td>
<td>15.80</td>
<td></td>
</tr>
</tbody>
</table>

Narrow stripe width: 0.6mm ± 30%
Wide stripe width: 1.0mm ± 30%
Space between two stripes: 1.0mm ± 30%

ESCC 3901 002: 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 A–27):*

- 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.

---

<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>
</tr>
</thead>
<tbody>
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<td>0.30</td>
<td>0.06</td>
<td>385.1</td>
<td>0.64</td>
<td>0.98</td>
</tr>
<tr>
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</tr>
<tr>
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<td>19X0.15 SPC</td>
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<td>54.3</td>
<td>1.14</td>
<td>4.30</td>
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<tr>
<td>ESCC 3901 012 06</td>
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<td>19X0.20 SPC</td>
<td>1.04</td>
<td>0.60</td>
<td>32.3</td>
<td>1.37</td>
<td>6.91</td>
</tr>
<tr>
<td>ESCC 3901 012 07</td>
<td>18</td>
<td>19X0.25 SPC</td>
<td>1.29</td>
<td>1.00</td>
<td>20.3</td>
<td>1.63</td>
<td>10.37</td>
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<tr>
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<td>14.8</td>
<td>1.90</td>
<td>14.59</td>
</tr>
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<td>1.82</td>
<td>2.00</td>
<td>10.2</td>
<td>2.29</td>
<td>19.60</td>
</tr>
<tr>
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<td>2.74</td>
<td>31.23</td>
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</table>

*SPC: silver plated copper - SPCA: silver plated copper alloy - *=according to the ESA standard*
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 A-27):
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>2.04</td>
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<td>2.74</td>
<td>5.48</td>
<td>65.46</td>
</tr>
</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *=according to the ESA standard
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 A-28):
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>3.03</td>
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<td>6.64</td>
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<td>1.37</td>
<td>2.95</td>
<td>21.72</td>
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<td>32.61</td>
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<tr>
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<td>37X0.25 SPC</td>
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<td>6.51</td>
<td>2.74</td>
<td>5.92</td>
<td>98.19</td>
</tr>
</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *=according to the ESA standard
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 A-28):
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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<tbody>
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<td>149</td>
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<td>2.07</td>
<td>8.86</td>
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<td>130.92</td>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy. *=according to the ESA standard
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 A-27):*
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

<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>0.63</td>
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<td>6.51</td>
<td>0.10</td>
<td>2.74</td>
<td>3.65</td>
<td>45.48</td>
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</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *=according to the ESA standard
# 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 A-27):
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

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<th>AXON* REFERENCE</th>
<th>CONDUCTOR</th>
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</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *=according to the ESA standard
## Shielded jacketed twisted triples

### 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 A-28):
- 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.

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

### AXON® Reference

<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  *-according to the ESA standard
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 A–28):
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 - *=according to the ESA standard
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 A-19 AND A-23)

ESCC 3901 012 XX /x - x

- AXON® REFERENCE
- VARIANT
- Colour of single wire
- Jacket colour

Twisted pairs (PAGES A-20 AND A-24)

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 A-21 AND A-25)

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 A-22 AND A-26)

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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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 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 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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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>
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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>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</table>

ESCC: 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 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 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,
- Resistant to 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>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 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

<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>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 single wires

**ESCC 3901 013**

- **PTFE / Polymide 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. Polymide protective coating,
4. Silver plated copper shield,
5. Polymide 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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<th>AXON REFERENCE</th>
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<th>SINGLE WIRE MAX. Ø mm</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.

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<th>AXON' REFERENCE</th>
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<th>NOM. CROSS SECTION mm²</th>
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<th>SINGLE WIRE MAX. Ø mm</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded 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. 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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<th>NOM. CROSS SECTION mm²</th>
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<th>SINGLE WIRE MAX. Ø mm</th>
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SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed twisted quads

ESCC 3901 013
PTFE / Polymide 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 - Polymide protective coating,
4 - Silver plated copper shield,
5 - Polymide 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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<table>
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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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<tbody>
<tr>
<td>ESCC 3901 018 01*</td>
<td>32</td>
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</tr>
</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *=according to the ESA standard
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>
<thead>
<tr>
<th>AXON' Reference</th>
<th>AWG</th>
<th>Stranding Nb x Ø mm</th>
<th>Conductor Type</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>3.16</td>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
* = according to the ESA standard
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>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>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
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</table>

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>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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</thead>
<tbody>
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<td>15.8</td>
<td>2.12</td>
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<td>6.7</td>
<td>2.97</td>
<td>7.13</td>
<td>153</td>
</tr>
</tbody>
</table>

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>STRANDED 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>SINGLE WIRE MAX. Ø mm</th>
<th>BUNDLE MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
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<td>32</td>
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</table>

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>
<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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</tbody>
</table>

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,

*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>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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<tbody>
<tr>
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<td>0.034</td>
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<td>0.064</td>
<td>0.75</td>
<td>1.37</td>
<td>Violet</td>
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<tr>
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<td>7X0.102 SPCA</td>
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<td>0.057</td>
<td>375</td>
<td>0.064</td>
<td>0.82</td>
<td>1.44</td>
<td>Grey</td>
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<tr>
<td>ESCC 3901 018 41</td>
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<td>7X0.126 SPCA</td>
<td>0.39</td>
<td>0.089</td>
<td>239</td>
<td>0.064</td>
<td>0.9</td>
<td>1.6</td>
<td>Yellow</td>
<td>6.52</td>
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<td>0.14</td>
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<td>0.24</td>
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<td>2.04</td>
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</tr>
</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *=according to the ESA standard
### Shielded jacketed twisted pairs

#### ESCC 3901 018

**CELLOFLON® / Polymide / 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. Polymide 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).

### Specifications

<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>SHEIELDED 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 - *= according to the ESA standard

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CABLES & HARNESSES FOR SPACE APPLICATIONS - www.axon-cable.com
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,
6 - Extruded PFA insulation.

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).

---

**Conductor 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>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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<td>151.0</td>
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</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *= according to the ESA standard
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).

<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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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *=according to the ESA standard
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.

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).

<table>
<thead>
<tr>
<th>AXON' REFERENCE</th>
<th>AWG</th>
<th>STRANDING Nb × 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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<td>Red</td>
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</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy. *= according to the ESA standard
### Shielded jacketed twisted 7-core cables

**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, 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: AXON® CABLE Specifications

<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>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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<td>5.79</td>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy. *= according to the ESA standard.
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>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 019 01*</td>
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<td>7X0.102 SPCA</td>
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SPC: silver plated copper - SPCA: silver plated copper alloy - *=according to the ESA standard
Twisted pairs

ESCC 3901 019
CELOFLON® / 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 (CELOFLON®),
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. *-according to the ESA standard
**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 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>19X0.30 SPC</td>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy. *=according to the ESA standard
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>CONDUCTOR</th>
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<td>ESCC 3901 019 26</td>
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<td>16</td>
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<tr>
<td>ESCC 3901 019 32</td>
<td>12</td>
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</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy. *=according to the ESA standard

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**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>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 019 33</td>
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<td>7X0.127 SPCA</td>
<td>0.47</td>
<td>0.09</td>
<td>260</td>
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<td>0.15</td>
<td>172</td>
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<td>10.70</td>
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<td>14.30</td>
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<td>0.60</td>
<td>37</td>
<td>1.48</td>
<td>4.00</td>
<td>35.00</td>
</tr>
</tbody>
</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.

---

**Axon' Reference**

<table>
<thead>
<tr>
<th>AXON' Reference</th>
<th>AWG</th>
<th>Conductor</th>
<th>Nom. Cross Section</th>
<th>Max. Dc Resistance at 20°C</th>
<th>Single Wire Max. Ø</th>
<th>Bundle Max. Ø</th>
<th>Max. Weight g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 019 38</td>
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<td>7x0.127 SPCA</td>
<td>0.47 mm²</td>
<td>261 Ω / km</td>
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<td>2.60 mm</td>
<td>9.60 g/m</td>
</tr>
<tr>
<td>ESCC 3901 019 39</td>
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<td>19x0.10 SPCA</td>
<td>0.57 mm²</td>
<td>172 Ω / km</td>
<td>0.96 mm</td>
<td>2.90 mm</td>
<td>13.10 g/m</td>
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<td>19x0.12 SPCA</td>
<td>0.58 mm²</td>
<td>124 Ω / km</td>
<td>1.13 mm</td>
<td>3.40 mm</td>
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<tr>
<td>ESCC 3901 019 41</td>
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<td>19x0.15 SPC</td>
<td>0.76 mm²</td>
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<td>3.70 mm</td>
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<tr>
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<td>0.99 mm²</td>
<td>38 Ω / km</td>
<td>1.48 mm</td>
<td>4.40 mm</td>
<td>48.20 g/m</td>
</tr>
</tbody>
</table>

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>
<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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<tr>
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<td>0.47</td>
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<td>261</td>
<td>0.87</td>
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<td>38</td>
<td>1.48</td>
<td>4.40</td>
<td>47.80</td>
</tr>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed 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,
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.

<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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<tbody>
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<td>1.10</td>
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<td>0.09</td>
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<td>0.25</td>
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<td>2.73</td>
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<td>31.70</td>
</tr>
</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *=according to the ESA standard
**Shielded jacketed 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,
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,
- Resistant to large overloads with no fire risk,
- Non-flammable,
- Good flexibility,
- Resistant to most chemicals,
- Suited for thermal, mechanical or laser stripping.

---

**Axon® Reference**

<table>
<thead>
<tr>
<th>AXON® Reference</th>
<th>AWG</th>
<th>Stranding</th>
<th>Nom. Section</th>
<th>Max. DC Resistance</th>
<th>Shield Strand</th>
<th>Single Wire Max.</th>
<th>Overall Max.</th>
<th>Weight g/m</th>
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<td>7.50</td>
<td>0.079</td>
<td>2.73</td>
<td>5.80</td>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *=according to the ESA standard
Shielded jacketed 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,
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.

<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>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>Overall MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
</tr>
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<tbody>
<tr>
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<td>ESCC 3901 019 69</td>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy, *=according to the ESA standard
Shielded jacketed 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,
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.

<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>124.00</td>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *=according to the ESA standard
Shielded jacketed 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,
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>
</tr>
</thead>
<tbody>
<tr>
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<td>0.09</td>
<td>260</td>
<td>0.079</td>
<td>0.87</td>
<td>2.70</td>
<td>12.50</td>
</tr>
<tr>
<td>ESCC 3901 019 81</td>
<td>26</td>
<td>19X0.10 SPCA</td>
<td>0.57</td>
<td>0.15</td>
<td>172</td>
<td>0.079</td>
<td>0.96</td>
<td>2.90</td>
<td>15.80</td>
</tr>
<tr>
<td>ESCC 3901 019 82</td>
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<td>19X0.12 SPCA</td>
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<td>123</td>
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<td>37</td>
<td>0.079</td>
<td>1.48</td>
<td>4.40</td>
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</table>

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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<tr>
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<td>0.15</td>
<td>172</td>
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<td>0.96</td>
<td>3.20</td>
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<td>1.48</td>
<td>4.80</td>
<td>58.20</td>
</tr>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
Shielded jacketed 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,
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.

**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>SHIELD STRAND Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0.47</td>
<td>0.09</td>
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<td>19X0.15 SPC</td>
<td>0.76</td>
<td>0.40</td>
<td>65</td>
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<td>38</td>
<td>0.079</td>
<td>1.48</td>
<td>4.8</td>
<td>57</td>
</tr>
</tbody>
</table>

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

**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>MAX. DC RESISTANCE AT 20°C Ω/km</th>
<th>SHEILD STRAND MAX. Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 021 01*</td>
<td>30 7X0.102 SPCA</td>
<td>0.32 0.057</td>
<td>375</td>
<td>0.063</td>
<td>0.78</td>
<td>1.4</td>
<td>3.4</td>
</tr>
<tr>
<td>ESCC 3901 021 02</td>
<td>28 7X0.127 SPCA</td>
<td>0.39 0.09</td>
<td>253</td>
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<td>0.87</td>
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<td>26 19X0.10 SPCA</td>
<td>0.47 0.15</td>
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<td>0.99</td>
<td>1.8</td>
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<tr>
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<td>0.58 0.25</td>
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<td>1.13</td>
<td>2.1</td>
<td>7.4</td>
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<td>0.76 0.40</td>
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<td>7</td>
<td>0.079</td>
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<td>5.3</td>
<td>66</td>
</tr>
</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *=according to the ESA standard
Shielded jacketed twisted pairs

**ESCC 3901 021**

**CELLOFLON® / Polymide 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. Polymide tape,
4. Polymide tape,
5. Drain wire,
6. Silver plated copper helicoidal shield,
7. Polymide tape,
8. Polymide tape.

Single wire colour: Red and natural (or other specification)
Jacket colour: Amber (natural colour of polymide 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 MAX. Ø mm</th>
<th>SINGLE WIRE MAX. Ø mm</th>
<th>OVERALL MAX. Ø mm</th>
<th>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 021 10*</td>
<td>30 7X0.102 SPCA</td>
<td>MAX. Ø mm</td>
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</tr>
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<td>MAX. Ø mm</td>
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<td>0.21</td>
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<tr>
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<td>63</td>
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<tr>
<td>ESCC 3901 021 15</td>
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<td>MAX. Ø mm</td>
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<td>0.60</td>
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<td>0.079</td>
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<td>MAX. Ø mm</td>
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<td>1.20</td>
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<td>MAX. Ø mm</td>
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<td>3.00</td>
<td>7.5</td>
<td>0.079</td>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *= according to the ESA standard
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.

### AXON' REFERENCE

<table>
<thead>
<tr>
<th>AXON' REFERENCE</th>
<th>DRAIN &amp; CONDUCTOR</th>
<th>CONDUCTOR</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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<tr>
<td>ESCC 3901 021 19</td>
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<td>0.39</td>
<td>0.057</td>
<td>385</td>
<td>0.063</td>
<td>0.78</td>
</tr>
<tr>
<td>ESCC 3901 021 20</td>
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<td>0.15</td>
<td>171</td>
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<td>0.99</td>
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<td>0.25</td>
<td>121</td>
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<td>1.13</td>
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<tr>
<td>ESCC 3901 021 22</td>
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<td>0.40</td>
<td>64</td>
<td>0.079</td>
<td>1.26</td>
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<tr>
<td>ESCC 3901 021 23</td>
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<td>0.60</td>
<td>37</td>
<td>0.079</td>
<td>1.48</td>
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</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
*'=according to the ESA standard
## 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: AXON' Reference, Drain & Conductor, Conductor, Shielding, Overall Diameter, Maximum Weight

<table>
<thead>
<tr>
<th>AXON' Reference</th>
<th>AWG</th>
<th>Stranding</th>
<th>Max. Ø mm</th>
<th>Nom. Cross Section</th>
<th>Max. DC Resistance at 20°C</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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</thead>
<tbody>
<tr>
<td>ESCC 3901 021 24</td>
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<td>0.78</td>
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<td>8.2</td>
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<td>7X0.127 SPCA</td>
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<td>0.09</td>
<td>260</td>
<td>0.079</td>
<td>0.87</td>
<td>2.9</td>
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<td>ESCC 3901 021 26</td>
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<td>19X0.10 SPCA</td>
<td>0.47</td>
<td>0.15</td>
<td>171</td>
<td>0.079</td>
<td>0.99</td>
<td>3.2</td>
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<tr>
<td>ESCC 3901 021 27</td>
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<td>19X0.12 SPCA</td>
<td>0.58</td>
<td>0.25</td>
<td>122</td>
<td>0.079</td>
<td>1.13</td>
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<td>37</td>
<td>0.079</td>
<td>1.48</td>
<td>4.9</td>
<td>40</td>
</tr>
</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *= according to the ESA standard
Shielded jacketed twisted 5-core cables

**ESCC 3901 021**

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

**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 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>DRAIN &amp; CONDUCTOR</th>
<th>CONDUCTOR</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>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 021 30</td>
<td>26 19X0.10 SPCA</td>
<td>0.47 0.15 172 0.079 0.99 3.4 17</td>
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<tr>
<td>ESCC 3901 021 31</td>
<td>24 19X0.12 SPCA</td>
<td>0.58 0.25 123 0.079 1.13 4.0 22</td>
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<tr>
<td>ESCC 3901 021 32</td>
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<td>0.76 0.40 64 0.079 1.26 4.5 32</td>
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<td>0.99 0.60 37 0.079 1.48 5.4 49</td>
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</table>

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,
9 - 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>DRILL &amp; CONDUCTOR</th>
<th>CONDUCTOR</th>
<th>SHEILD 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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<td>172 0.079 0.99 3.7 20</td>
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<tr>
<td>ESCC 3901 021 35</td>
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<td>0.58 0.25</td>
<td>124 0.079 1.13 4.4 26</td>
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</tr>
<tr>
<td>ESCC 3901 021 36</td>
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<tr>
<td>ESCC 3901 021 37</td>
<td>20 19X0.20 SPC</td>
<td>0.99 0.60</td>
<td>38 0.079 1.48 5.8 62</td>
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</table>

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>CONDUCTOR</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 021 38</td>
<td>26 19X0.10 SPCA</td>
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<td>0.079</td>
<td>0.99</td>
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<tr>
<td>ESCC 3901 021 39</td>
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<td>0.58 0.25</td>
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<td>1.13</td>
<td>4.4</td>
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<tr>
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<td>0.079</td>
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<td>4.9</td>
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<td>ESCC 3901 021 41</td>
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<td>0.079</td>
<td>1.48</td>
<td>5.8</td>
</tr>
</tbody>
</table>

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.

### Table of Specifications

<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>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 024 01*</td>
<td>30</td>
<td>7X0.102 SPCA</td>
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<td>0.057</td>
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<td>0.75</td>
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<td>ESCC 3901 024 04</td>
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<td>3.00</td>
<td>7</td>
<td>3.00</td>
<td>33</td>
</tr>
</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *= according to the ESA standard
Twisted pairs

**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 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.

---

**AXON’ REFERENCE**

<table>
<thead>
<tr>
<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 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. *+=according to the ESA standard
**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,
- Resistant to 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: AXON® Twisted Triples

<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. WIRE 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 - *=according to the ESA standard
Twisted quads

ESCC 3901 024

Abrasão 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>
<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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</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy - *=according to the ESA standard
Shielded jacketed single wires

**ESCC 3901 024**

Abrasition 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: AXON® REFERENCE

<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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</table>

*SPC: silver plated copper - SPCA: silver plated copper alloy - *according to the ESA standard
Shielded jacketed twisted pairs

ESCC 3901 024

Abrasian 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 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 ℃ / 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 - *=according to the ESA standard
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.

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<tr>
<th>AXON' REFERENCE</th>
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<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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<td>2.18</td>
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<td>0.079</td>
<td>3.00</td>
<td>7.0</td>
<td>115.5</td>
</tr>
</tbody>
</table>

SPC: silver plated copper - SPCA: silver plated copper alloy
* according to the ESA standard
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,
6 - Extruded PFA insulation.

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 Ω/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>
</tr>
</thead>
<tbody>
<tr>
<td>ESCC 3901 024 57*</td>
<td>30</td>
<td>7X0.102 SPCA</td>
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<tr>
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<td>13.0</td>
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<td>0.15</td>
<td>171</td>
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<td>3.0</td>
<td>15.7</td>
</tr>
<tr>
<td>ESCC 3901 024 60</td>
<td>24</td>
<td>19X0.12 SPCA</td>
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<tr>
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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 - *=according to the ESA standard
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 - 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.

<table>
<thead>
<tr>
<th>AXON' REFERENCE</th>
<th>ZC Ω</th>
<th>AWG</th>
<th>INNER CONDUCTOR</th>
<th>DIELECTRIC</th>
<th>JACKET</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></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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<tr>
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<td>0.49</td>
<td>150</td>
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<td>ESCC 3902 002 06</td>
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<td>150</td>
<td>2.07</td>
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SPC: silver plated copper - SPCA: silver plated copper alloy
## Triaxial 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. Extruded PFA insulation (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.

### TRIAXIAL CABLE

<table>
<thead>
<tr>
<th>AXON® REFERENCE</th>
<th>ZC</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>
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<tr>
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<td>4.33</td>
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<td>7.3</td>
<td>White</td>
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</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 (except var. 26): Expanded PTFE (CELLOFLON®),
3 - Dielectric: Expanded PTFE (CELLOFLON®), Except var. 20: wrapped PTFE,
4 - Binder (only var. 22 & 26 to 30): Wrapped expanded PTFE (CELLOFLON®),
5 - Drain wire (except var. 26 to 30): Stranded silver plated copper or copper alloy,
6 - Silver plated copper 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.

---

**Table**

<table>
<thead>
<tr>
<th>AXON REFERENCE</th>
<th>ZC (°)</th>
<th>INNER CONDUCTOR</th>
<th>DIELECTRIC</th>
<th>JACKET</th>
<th>MAX. WEIGHT g/m</th>
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</thead>
<tbody>
<tr>
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<tr>
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<td>401</td>
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<tr>
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<tr>
<td>ESCC 3902 002 27</td>
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<td>0.39</td>
<td>256</td>
<td>0.89</td>
</tr>
<tr>
<td>ESCC 3902 002 28</td>
<td>100</td>
<td>26</td>
<td>0.49</td>
<td>159</td>
<td>1.1</td>
</tr>
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<td>ESCC 3902 002 29</td>
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<td>0.65</td>
<td>89</td>
<td>1.5</td>
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<tr>
<td>ESCC 3902 002 30</td>
<td>100</td>
<td>22</td>
<td>0.82</td>
<td>54</td>
<td>1.8</td>
</tr>
</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 - Extruded PFA insulation,
7 - Filler: Expanded microporous PTFE,
8 - Binder: Wrapped microporous PTFE,
9 - Silver plated copper braided shield,
10 - Extruded PFA insulation.

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 Ω</th>
<th>INNER CONDUCTOR</th>
<th>SINGLE WIRE</th>
<th>SYMMETRIC CABLE</th>
</tr>
</thead>
<tbody>
<tr>
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<td>100</td>
<td>28 7x0.127 SPCA</td>
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<tr>
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<td>100</td>
<td>26 7x0.160 SPCA</td>
<td>0.49</td>
<td>0.141</td>
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</tbody>
</table>

Spacewire quadribus cable

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

Silverplated aluminium conductors and shields for light weight on-board wires and cables

AXON® has developed a whole range of silverplated aluminium conductors and shielding wires brandnamed AXALU®. Used for the manufacture of satellite data transmission and battery power distribution, AXALU® wires allow for a 50 to 60% weight saving regarding conductor and shielding in comparison with copper wires.

Due to the low atomic mass, AXALU® has also an advantage for the manufacture of shieldings with exposure to radiation (x-rays).

Comparison Aluminium / Copper

<table>
<thead>
<tr>
<th></th>
<th>SP Aluminium</th>
<th>SP Copper</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>AWG 40 (solid) to AWG 6 (stranded)</td>
<td>AWG 50 to 4</td>
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<tr>
<td>Conductivity (% IACS)</td>
<td>63</td>
<td>100</td>
</tr>
<tr>
<td>Tensile strength (MPa)</td>
<td>150</td>
<td>240</td>
</tr>
<tr>
<td>Temperature rating (°C)</td>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>Density</td>
<td>2.7</td>
<td>8.89</td>
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<td>Termination techniques</td>
<td>soldering / crimping</td>
<td>soldering / crimping</td>
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<tr>
<td>Weight saving</td>
<td>50% to 60%</td>
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</table>
**Single wires**

**AXALU® / aluminium wires**

Crosslinked ETFE insulation

Operating temperature: -100°C up to +150°C

Voltage rating: 600 VAC max.

**Construction**
1. Stranded silver plated aluminium conductor.
2. Extruded crosslinked ETFE insulation.

**Main characteristics**
- 30 to 40 % weight saving compared to equivalent copper wires,
- good cut-through resistance,
- good resistance to radiation,
- good X-Ray response.

<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>MAX. WEIGHT g/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXL 1 M 2419 AS1</td>
<td>24</td>
<td>19x0.12</td>
<td>0.62</td>
<td>0.215</td>
<td>145</td>
<td>0.83</td>
<td>1.22</td>
</tr>
<tr>
<td>AXL 1 M 2219 AS1</td>
<td>22</td>
<td>19x0.15</td>
<td>0.77</td>
<td>0.336</td>
<td>92</td>
<td>1.00</td>
<td>1.70</td>
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<tr>
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<td>20</td>
<td>19x0.20</td>
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<td>0.597</td>
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<td>1.25</td>
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<tr>
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<td>19x0.25</td>
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<td>4.97</td>
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</table>
Twisted pairs

AXALU® / aluminium wires

Crosslinked ETFE insulation
Operating temperature: -100°C up to +150°C
Voltage rating: 600 VAC max.

Construction
1 - Stranded silver plated aluminium conductor.
2 - Extruded crosslinked ETFE insulation.

Main characteristics
- 30 to 40% weight saving compared to equivalent copper wires,
- good cut-through resistance,
- good resistance to radiation,
- good X-Ray response.

<table>
<thead>
<tr>
<th>AXON' REFERENCE</th>
<th>AWG</th>
<th>CONDUCTOR</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>MAX. 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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<tbody>
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<td>0.62</td>
<td>0.215</td>
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<td>0.83</td>
<td>1.66</td>
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<tr>
<td>AXL 1 M 2219 AS2</td>
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<td>0.77</td>
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<td>1.27</td>
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<td>1.50</td>
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<td>7.89</td>
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<td>1.343</td>
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<td>37x0.25</td>
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<td>AXL 1 M 1237 AS2</td>
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<td>10.6</td>
<td>2.82</td>
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<td>71.00</td>
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</tbody>
</table>
Shielded jacketed single wires

**AXALU® / aluminium wires**

**Crosslinked ETFE insulation**

**Operating temperature:** -100°C up to +150°C

**Voltage rating:** 600 VAC max.

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**Construction**

1. Stranded silver plated aluminium conductor.
2. Extruded crosslinked ETFE insulation.
3. Silver plated aluminium braided shield.
4. Extruded crosslinked ETFE insulation outer jacket.

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**Main characteristics**

- 30 to 40% weight saving compared to equivalent copper wires,
- Good cut-through resistance,
- Good resistance to radiation,
- Good EMI protection,
- Good X-Ray response.

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**Axon® Reference AWG**

<table>
<thead>
<tr>
<th>AXON® Reference</th>
<th>AWG</th>
<th>Stranding</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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<tbody>
<tr>
<td>AXL 1 M 2419 AS1C</td>
<td>24</td>
<td>19x0.12</td>
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<td>0.83</td>
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Shielded jacketed twisted pairs

**AXALU® / aluminium wires**

Crosslinked ETFE insulation

Operating temperature: -100°C up to +150°C

Voltage rating: 600 VAC max.

**Construction**

1. Stranded silver plated aluminium conductor.
2. Extruded crosslinked ETFE insulation.
3. Silver plated aluminium braided shield.
4. Extruded crosslinked ETFE insulation outer jacket.

**Main characteristics**

- 30 to 40% weight saving compared to equivalent copper wires,
- good cut-through resistance,
- good resistance to radiation,
- good EMI protection,
- good X-Ray response.

---

**AXON® REFERENCE**

<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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Shielded jacketed twisted triples

**AXALU® / aluminium wires**

Crosslinked ETFE insulation  
Operating temperature: -100°C up to +150°C  
Voltage rating: 600 VAC max.

**Construction**
1. Stranded silver plated aluminium conductor.  
2. Extruded crosslinked ETFE insulation.  
3. Silver plated aluminium braided shield.  
4. Extruded crosslinked ETFE insulation outer jacket.

**Main characteristics**
- 30 to 40% weight saving compared to equivalent copper wires,  
- good cut-through resistance,  
- good resistance to radiation,  
- good EMI protection,  
- good X-Ray response.

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### AXON® REFERENCE AWG CONDUCTOR

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