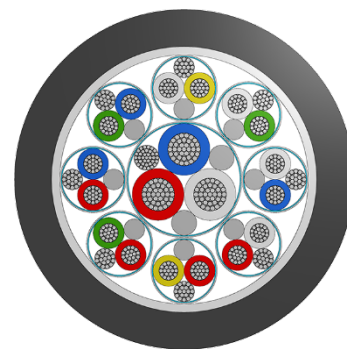


# Power & data cable Type 4591CC



## Construction characteristics

|                                   |   |
|-----------------------------------|---|
| <b>8 x Screened twisted pairs</b> | <p>0.50 mm<sup>2</sup> (16/0.20 mm) Tinned Copper XLPE insulated to 1.50 mm<br/>                 2 off twisted together with Tinned Copper drain wire and filler in interstices<br/>                 Overall helical 12/23µm Al/PET foil screen, minimum overlap 50%<br/>                 Overall minimum helical overlap PET 50% isolation tape, minimum overlap 50%<br/>                 OD: 3.20 mm<br/>                 Colour: WH/YW WH/GN WH/BU WH/RD RD/YW RD/GN RD/BU GN/BU</p> |
| <b>1 x Screened twisted triad</b> | <p>1.50 mm<sup>2</sup> (30/0.25 mm) Tinned Copper XLPE Insulated to 2.50 mm<br/>                 3 off twisted together with Tinned Copper drain wire and fillers in interstices<br/>                 Overall helical 12/23µm Al/PET foil screen, minimum overlap 50%<br/>                 Overall helical PET isolation tape, minimum overlap 50%<br/>                 OD: 5.60 mm<br/>                 Colour: BU WH RD</p>   |
| <b>Lay up</b>                     | <p>The screened twisted pairs are twisted around the screened triad<br/>                 Overall water-swellable tape, minimum overlap 50%<br/>                 OD: 12.80 mm</p>  |
| <b>Jacket</b>                     | <p>Polyether Polyurethane 85 Shore A, Halogen Free 1.80 mm nom RTI<br/>                 OD: 16.40 mm +/- 0.50<br/>                 Colour: BK</p>   |

## Mechanical characteristics

|                                     |                       |
|-------------------------------------|-----------------------|
| <b>Max. operating temp</b>          |                       |
| Static                              | +90°C                 |
| Dynamic                             | +80°C                 |
| <b>Cold flex temp</b>               | -40°C                 |
| <b>Depth rating</b>                 | 6,000 m               |
| <b>Min. recommended bend radius</b> |                       |
| Static                              | 118 mm                |
| Dynamic                             | 169 mm                |
| <b>Nominal weight</b>               |                       |
| In air                              | 334 kg/km             |
| In seawater                         | 104 kg/km at SG 1.025 |

## Electrical characteristics

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### 1.50 mm<sup>2</sup> Conductors

|                           |                            |
|---------------------------|----------------------------|
| Max. conductor resistance | 13.20 $\Omega$ /km at 20°C |
| Voltage rating            | 1,000 V DC                 |
| Test voltage              | 4,000 V DC for 1 min       |

### 0.50 mm<sup>2</sup> conductors

|                           |                            |
|---------------------------|----------------------------|
| Max. conductor resistance | 38.60 $\Omega$ /km at 20°C |
| Voltage rating            | 600 V DC                   |
| Test voltage              | 3,000 V DC for 1 min       |

### Min. insulation resistance

|                 |                       |
|-----------------|-----------------------|
| Core - Core     | > 1.00 G $\Omega$ /km |
| Core - Screen   | > 500 M $\Omega$ /km  |
| Screen - Screen | > 10 M $\Omega$ /km   |

|                    |  |
|--------------------|--|
| In compliance with | CE, UK CA, UK NI, RoHS, LVD<br>PFAS-free |
|--------------------|--|