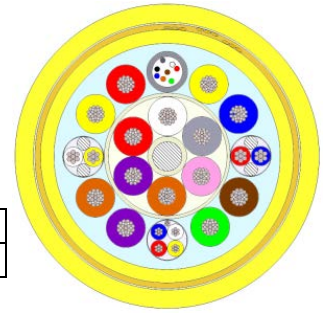


CRE16421



Issue	Date	Approved	Note
1	12/08/16	PM	Initial release

DESCRIPTION

Lightweight Tether neutrally balanced composite cable for use in ROV marine applications where enhanced manoeuvrability & stability are required.

Product Details (Insulated Cores)

Component Description	Qty	Conductor Stranding	Nominal DCR @ 20oC [Ω /Km]	Weight Kgs/Km]	Nominal Diameter [mm]
0.96mm ² Insulated Core	14	19/0.25mm TC	20.0	11.6	2.35mm
0.34mm ² Insulated Core	4	7/0.25mm TC	56.0	3.75	0.90mm
0.22mm ² Insulated Core	4	7/0.2mm TC	90.0	2.35	1.20mm

CONSTRUCTION

0.96mm² Power Cores (14 off)

Colours	White, Grey, Pink, Orange, Violet, Red, Yellow, Blue, Brown, Green, Violet, Orange, Yellow, Red
Insulation	Crosslinked EPR
Insulation Diameter	2.35 mm
Voltage Rating	600 / 1000V

0.34mm² Twisted Pairs (2 off)

Colours	White / Yellow, Blue / Red
Insulation	Polypropylene
Insulation Diameter	1.20 mm
Fillers	As required
Binder	Polyester Tape
Voltage Rating	300 / 500V

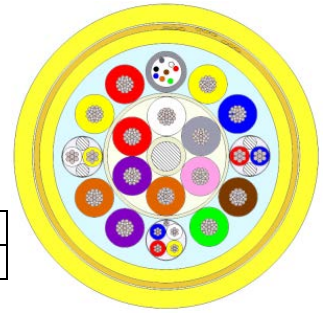
0.22mm² Twisted Quad (1 off)

Colours	White, Yellow, Blue, Red
Insulation	Cellular Polypropylene
Insulation Diameter	0.95 mm
Drainwire	7/0.127mm Tinned Copper
Foil Screen	Aluminium Polyester laminate
Impedance	80 Ω nominal

4 x G9/125 SM Fibre + 4 x G50/125 in SS316 Steel Tube

Fibre Type	Single & Multimode mode in Gel Filled SS316 Steel Tube
Diameter	2.4 mm

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DESCRIPTION

Lightweight Tether neutrally balanced composite cable for use in ROV marine applications where enhanced manoeuvrability & stability are required.

Cable Assembly

Layer 1	6 x 0.96mm ² Power Cores cabled around a central filler wrapped with water swellable tape
Barrier	Water swellable tape >100% Coverage
Layer 2	8 x 0.96 Power Cores + 2 x 0.34 TP's + 1 x 0.22 TQ + 8 Fibre FIST cabled around the central unit to form a uniform torsion free concentric assembly.
Water block Bedding	Elastomeric based hot melt encapsulate
Inner sheath	Polyurethane
Radial	0.75mm
Strain Relief	Torque balanced Vectran Braid
Barrier	Non-woven Polyester fibre tape > 100% coverage
Outer jacket	Hytel Polyester Elastomer (Shore Hardness 39D)
Colour	Yellow
Print / Sequential Marking	As specified at time of order
Radial Wall Thickness	1.0mm nominal
Diameter	17.7mm +/-0.5mm

CABLE CHARACTERISTICS

Operating Temperature	-40°C to +80°C
Cable Weight in Air	336 Kgs/Km
Cable Weight in Seawater	87.5 Kgs/Km
Min Bend Radius	125mm Static 180mm Dynamic
Breaking Strain	2000Kgs
WL	500Kgs

Optical Fibre Attenuation

Singlemode G9/125/250	<= 0.6dB/Km @ 1310 nm <= 0.4dB/Km @ 1550 nm
Multimode G50/125/250	<= 3.6dB/Km @ 850 nm <= 1.5dB/Km @ 1300 nm

ENVIRONMENTAL

RoHS Compliant	Yes
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