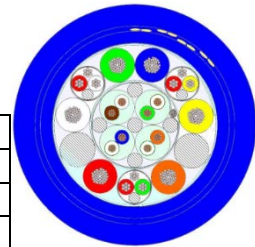


CRE13109-3



Issue	Date	Approved	Note
1	18/09/13	PM	Initial release
2	01/06/15	PM	Upgrade design to use WB Fillers & Tapes
3	01/03/18	PM	Harmonise Ethernet data pairs & colour code

DESCRIPTION

Ruggedised Data, Power & Control Composite Cable for use in Subsea applications.

Product Details (Insulated Cores)

Component Description	Qty	Conductor Stranding	Max DCR @ 20oC [Ω/Km]	Weight [Kgs/Km]	Nominal Diameter [mm]
1.00 mm ² Power Cores	6	32/0.2mm TC	22.0	13.3	2.60mm
0.34 mm ² Screened Pairs	6	7/0.25mm TC	56.0	3.9	1.20mm
0.24 mm ² Data Pairs	8	19/0.127mm BC	75.0	2.9	1.25mm

CONSTRUCTION

0.24mm² Ethernet Data Pairs

Colours	Green / Yellow, Green / Orange, Green / Blue, Green / White
Insulation	Cellular Polyolefin
Insulation Diameter	1.25mm Nominal
Component Bedding	Olefinic based elastomer
Component Diameter	2.80mm Nominal

0.34mm² Screened Pairs

Colours	Red / White, Red / Yellow, Red / Green
Insulation	HDPE
Insulation Diameter	1.2mm Nominal
Drain wire	0.34 mm ² TC
Foil Screen	Aluminium Polyester Foil > 100% Coverage
Barrier	Polyester Tape >100% Coverage
Component Diameter	2.60mm Nominal

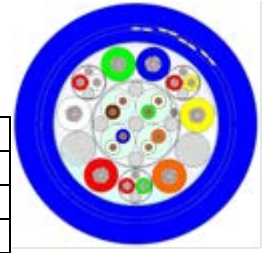
1.00mm² Power Cores

Colours	White, Green, Blue, Yellow, Orange, Red
Insulation	HDPE
Insulation Diameter	2.60mm Nominal

Cable Assembly

Cable Layer 1	4 x 0.24mm ² DATA Pairs with fillers as required
Barrier	Polyester Tape >100% Coverage
Drainwire	19/0.127mm TC
Foil Screen	Aluminium Polyester Foil > 100% Coverage
Water block	Water blocking tape over inner cable assembly
Cable Layer 2	3 x Screened Pairs + 6 x Power cores with water blocking fillers & tapes as required.
Binder	Polyester Tape 100% Coverage

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DESCRIPTION

Ruggedised Data, Power & Control Composite Cable for use in Subsea applications.

Bedding Layer	HF Polyurethane 85 Shore A Hardness
Colour	Blue - RAL5015
Radial Wall Thickness	1.00mm nominal
Diameter	14.9mm +/-0.3mm

Strain Relief	Braided Vectran
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Bonded Outer Sheath	HF Polyurethane 85 Shore A Hardness
Colour	Blue - RAL5015
Radial Wall Thickness	1.50mm nominal
Diameter	18.7mm +/-0.3mm

CABLE CHARACTERISTICS

Operating Temperature	-40°C to +80°C
Cable Weight in Air	369 Kgs/Km
Cable Weight in Water	92 Kgs/Km
Bend Radius Static	7X Diameter
Bend Radius Dynamic	15X Diameter
SWL	500Kgs Maximum