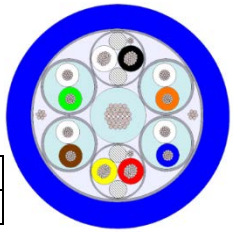
CRE16394



Issue	Date	Approved	Note
1	02/06/16	PM	Original Design

DESCRIPTION

Bespoke multicore interconnect cable for data communications and power used in subsea environments to 7000 metre depth and similar applications.

Product Details (Insulated Cores)

Component Description	Qty	Conductor Stranding	Nominal DCR @ 20oC[Ω/Km]	Weight Kgs/Km]	Nominal Diameter [mm]
0.5 sqmm Insulated Core	4	16/0.2mm TC	39	5.9	1.55mm
0.24 sqmm Insulated Core	8	19/0.127mm TC	84.2	2.9	1.28mm
1.5sqmm Insulated Core	1	30/0.25mm TC	12.7	18.2	3.1mm

CONSTRUCTION

0.5mm² TSP's

Colours	Black / White, Red / Yellow
Insulation	High Density Polyethylene
Insulation Diameter	1.50 mm
Drainwire	16/0.2mm TC with fillers as required
Shield	>100% Aluminium Polyester Foil Screen
Isolation	>100% Bonded polyester tape

0.24mm² Ethernet Twisted Pairs

Colours	White/Orange, White/Green, White/Brown, White/Blue
Insulation	High Density Polyethylene
Insulation Diameter	1.28 mm
Component Bedding	Olefinic based hot melt encapsulate
Component Diameter	2.90mm Nominal
Foil Screen	Aluminium Polyester Tape

1.5mm² Insulated Core

Colour	Natural
Insulation	High Density Polyethylene
Insulation Diameter	3.10 mm

Cable Assembly

Construction	2 x 0.5mm² TSP's + 4 x 0.24mm² Data Pairs cabled around a central 1.5mm² core to maintain a concentric circular profile.
Lay direction	Left Hand
Drainwire	2 x 0.22mm² Tinned Copper
Screen	Aluminium Polyester Foil 100% Coverage
Outer jacket	Polyurethane 85 Shore 'A' Hardness
Colour	Blue
Radial Wall Thickness	1.5mm nominal
Diameter	12.2mm +/-0.5mm

CABLE CHARACTERISTICS

Operating Temperature	-40°C to +80°C
Cable Weight in Air	175 Kgs/Km
Cable Weight in Seawater	54 Kgs/Km
Bend Radius Static	5X Diameter
Bend Radius Dynamic	10X Diameter

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