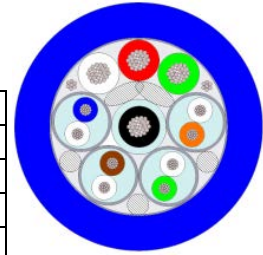


# CRE13099-4



Issue	Date	Approved	Note
1	07/08/13	CS	Original Design
2	14/08/13	PM	Adjusted weights
3	03/05/16	PM	Upgrade to 6K depth rating
4	22/08/18	KD	Revised data pair design for improved Skew

## DESCRIPTION

Bespoke multicore interconnect cable for data communications and power used in subsea and similar applications.

## Product Details (Insulated Cores)

Component Description	Qty	Conductor Stranding	Nominal DCR @ 20oC [ $\Omega$ /Km]	Weight Kgs/Km]	Nominal Diameter [mm]
0.75mm <sup>2</sup> Insulated Core	4	24/0.2mm TC	24.7	9.5	2.15mm
0.24mm <sup>2</sup> Data Pairs	8	19/0.127mm BC	76.8	2.9	1.25mm

## CONSTRUCTION

### 0.75mm<sup>2</sup> Cores

Colours	Black, White, Red, Green
Insulation	High Density Polyethylene
Insulation Diameter	2.15 mm
Bedding	Hot melt encapsulate to 2.8mm on black component

### 0.24mm<sup>2</sup> Ethernet Twisted Pairs

Colours	White/Orange, White/Green, White/Brown, White/Blue
Insulation	Cellular Polyethylene
Insulation Diameter	1.25 mm
Bedding	Hot Melt encapsulate
Component Diameter	2.80mm Nominal
Foil Screen	Aluminium polyester (alum side out)

### Cable Assembly

Construction	3 x 0.75mm <sup>2</sup> cores + 4 x 0.24mm <sup>2</sup> Data Pairs cabled around the 0.75mm <sup>2</sup> black component with fillers to maintain a concentric circular profile.
Drainwire	2 x 0.22mm <sup>2</sup> Tinned Copper
Screen	Aluminium Polyester Foil 100% Coverage
Outer jacket	Polyurethane 85 Shore 'A' Hardness
Colour	Black
Radial Wall Thickness	1.8mm nominal
Diameter	12.8mm +/-0.5mm

## CABLE CHARACTERISTICS

Operating Temperature	-40°C to +80°C
Cable Weight in Air	256 Kgs/Km
Cable Weight in Seawater	124 Kgs/Km
Bend Radius Static	6X Diameter
Bend Radius Dynamic	12X Diameter