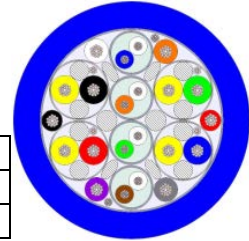


# CRE15344-2



Issue	Date	Approved	Note
1	16/11/15	PM	Initial release
2	15/02/18	PM	Revised data pair design

## DESCRIPTION

Data / Power Composite for use in subsea applications.

## Product Details (Insulated Cores)

Component Description	Qty	Conductor Stranding	Max DCR @ 20oC [ $\Omega$ /Km]	Weight [Kgs/Km]	Nominal Diameter [mm]
0.24mm <sup>2</sup> Data Pairs	8	19/0.127mm BC	76.8	2.9	1.25mm
0.50mm <sup>2</sup> Data Pairs	8	16/0.2mm TC	38.9	7.1	2.00 mm
0.50mm <sup>2</sup> Power Cores	6	16/0.2mm TC	38.9	6.8	1.70 mm

## CONSTRUCTION

### 0.24mm<sup>2</sup> Encapsulated Data Pairs

Colours	White/Green, White/Orange, White/Blue, White/Brown
Insulation	Cellular polyolefin
Insulation Diameter	1.25mm Nominal
Component Bedding	Olefinic based hot melt encapsulate
Component Diameter	2.80mm Nominal
Foil Screen	Aluminium Polyester Tape

### 0.50mm<sup>2</sup> Data Pairs

Colours	Yellow/Green, Yellow/Blue, Yellow/Red, Yellow/Black
Insulation	HDPE
Insulation Diameter	2.0mm Nominal
Lay-up	With fillers as required
Drainwire	0.22mm <sup>2</sup> 7/0.2mm TC
Screen	Aluminium / Polyester Laminate
Coverage	>100%
Isolation	Bonded Polyester layer

### 0.50mm<sup>2</sup> Power Cores

Colours	White, Orange, Red, Grey, Violet, Black
Insulation	HDPE
Insulation Diameter	1.70mm Nominal

### Cable Assembly

Cable Layer 1	4 x 0.24mm <sup>2</sup> & 4 x 0.5mm <sup>2</sup> Data Pairs along with 6 x 0.50mm Power cores with fillers as required to achieve a uniform and concentric profile
Drainwires	2 x 0.22mm <sup>2</sup> 7/0.2mm TC
Foil Screen	Aluminium Polyester Foil > 100% Coverage
Bonded Outer Sheath	HF Polyurethane 85 Shore A Hardness
Colour	Blue - RAL5015
Radial Wall Thickness	2.00mm nominal
Diameter	16.5mm +/-0.3mm

## CABLE CHARACTERISTICS

Operating Temperature	-40°C to +80°C
Cable Weight in Air	294 Kgs/Km
Cable Weight in Water	77 Kgs/Km
Bend Radius Static	5X Diameter
Bend Radius Dynamic	10X Diameter