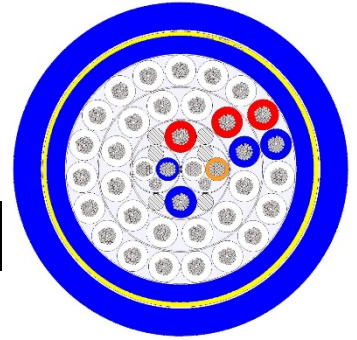


# CRE17465



Issue	Date	Approved	Note
1	29/06/2017	KD	Initial release

## DESCRIPTION

Bespoke power & data composite cable for use in marine applications

## Product Details (Insulated Cores)

Component Description	Qty	Conductor Stranding	Nom DCR @ 20oC [Ω/Km]	Weight [Kgs/Km]	Nominal Diameter [mm]
1.0mm <sup>2</sup> Insulated Core	33	32/0.2mm TC	22	12.5	2.8mm
0.75mm <sup>2</sup> Insulated Core	4	24/0.2mm TC	27	8.5	1.7mm

## CONSTRUCTION

### **0.75mm<sup>2</sup> TSP's**

Insulation	High Density Polyethylene
Insulation Diameter	1.7mm
Colours	White/Blue, White/Orange
Drainwire	0.5mm <sup>2</sup> Tinned Copper
Screen	Aluminium Polyester Foil
Isolation	Bonded Polyester

### **1.0mm<sup>2</sup> Cores**

Insulation	High Density Polyethylene
Insulation Diameter	2.8mm
Colours	3 x Blue, 3 x Red, 27x White

### **Cable Assembly**

Core	2 off 1.0mm <sup>2</sup> insulated cores cabled with 2 off 0.75mm <sup>2</sup> TSP's to form concentric core.
Layer I	12 off 1.0mm <sup>2</sup> insulated cores cabled around core.
Layer II	19 off 1.0mm <sup>2</sup> insulated cores cabled around Layer I.
Bedding Layer	FRHF Polyurethane 85 Shore A Hardness to UL94 V2, Mud & Oil resistant to NEK606
Diameter	19.7mm Nominal
Vectran Braided Strain Relief Barrier	>1200 Kg Breaking strain. >400 Kgs Safe working Load Polyester fibre tape
Outer Sheath	FRHF Polyurethane 85 Shore A Hardness to UL94 V2, Mud & Oil resistant to NEK606
Radial Wall Thickness	2.0mm nominal
Diameter	24.4mm +/-0.5mm

## CABLE CHARACTERISTICS

Operating Temperature	-40°C to +80°C
Cable Weight in Air	730 Kgs/Km
Cable Weight in Water	264 Kgs/Km
Bend Radius Static	6X Diameter
Bend Radius Dynamic	10X Diameter