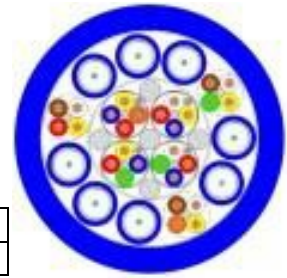


# CRE14200



Issue	Date	Approved	Note
1	12/06/14	PM	Initial release

## DESCRIPTION

Bespoke multicore composite cable for use in marine applications.

## Product Details (Insulated Cores)

Component Description	Qty	Conductor Stranding	Max DCR @ 20oC [Ω/Km]	Weight [Kgs/Km]	Nom Diameter [mm]
0.34 sqmm Insulated Core	28	7/0.25mm BC	54	4.15	1.34
75 Ohm Mini coax	8	7/0.16mm TC	139	2.8	3.2

## CONSTRUCTION

### 0.34mm<sup>2</sup>TSQ

Colours	Items 1-4 see table
Insulation	High Density Polyethylene
Insulation Diameter	1.35mm
Drainwire	7/0.2mm Tinned Copper
Screen	Aluminium / Polyester
Coverage	>100%
Isolation	Bonded Polyester

Item	Colours			
1 Twisted Screened Quad	Red	White	Yellow	Blue
2 Twisted Screened Quad	Green	White	Red	Blue
3 Twisted Screened Quad	Red	Yellow	Blue	Green
4 Twisted Screened Quad	Blue	Yellow	Orange	Red
5 Twisted Quad	Green	Brown	White	Yellow
6 Twisted Quad	Orange	Brown	White	Yellow
7 Twisted Quad	Red	Brown	White	Yellow

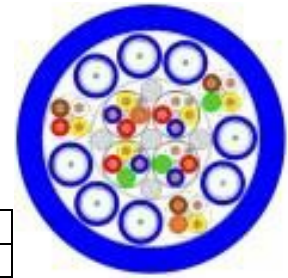
### 0.34mm<sup>2</sup>TQ

Colours	Items 5-7 see table
Insulation	High Density Polyethylene
Insulation Diameter	1.35mm

### 75 Ohm Mini coax

Core colour	Natural
Insulation	Cellular Polyethylene
V of P %	78 %
Dielectric diameter	1.7mm
Braided Screen	0.1mm TC >95% optical coverage
Sheath	HDPE blue
Diameter	3.2mm nominally

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### ***Cable Assembly***

Cable Layer 1	4 x 0.34mm <sup>2</sup> screened quads Items 1-4 cabled with fillers to achieve circular profile
Binder	Polyester Tape 100% Coverage
Cable Layer 2	3 x 0.34mm <sup>2</sup> un-screened quads Items 5-7 cabled with 8 x 75Ω mini coaxes as outlined in drawing to achieve circular profile
Binder	Polyester Tape 100% Coverage
Outer Sheath	Polyurethane 85 Shore 'A' Hardness
Colour	Blue - RAL5015
Radial Wall Thickness	1.8mm nominal
Diameter	19.0mm+/-0.5mm

## CABLE CHARACTERISTICS

Operating Temperature	-40°C to +80°C
Cable Weight in Air	404 Kgs/Km
Cable Weight in Water	117 Kgs/Km
Bend Radius Static	6X Diameter
Bend Radius Dynamic	12X Diameter