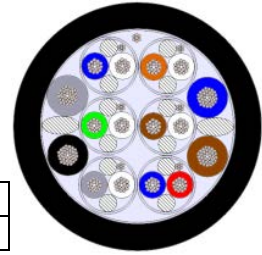


CRE19770



Issue	Date	Approved	Note
1	15/11/19	PM	Initial release with references to standards

DESCRIPTION

Power & signal composite cable for use in Marine and Subsea applications designed with reference to ISO 13628-5

Product Details (Insulated Cores)

Component Description	Qty	Conductor Stranding	Max DCR @ 20oC [Ω /Km]	Weight [Kgs/Km]	Nominal Diameter [mm]
0.50mm ² Signal Cores	12	16/0.2mm TC	38.0	5.9	1.55mm
1.0mm ² Power Cores	4	32/0.2mm TC	19.5	12.8	2.40mm

CONSTRUCTION

0.50mm² Signal Pairs designed with reference to IEC60502

Conductor	Tinned Copper as per IEC 60228
Colours x 2	White paired with Blue, Orange, Green, Brown, Grey & Red/Blue
Insulation	High Density Polyethylene
Insulation Diameter	1.55mm
Drainwire	7/0.25mmTC
Foil Screen	Aluminium / Polyester Laminate >100% Coverage
Isolation	Bonded Polyester tape
Diameter	3.2mm nominal

1.0mm² Power Cores designed with reference to IEC 60502

Conductor	Tinned Copper as per IEC 60228
Colours	Blue, Brown, Black, Grey
Insulation	HDPE
Insulation Diameter	2.40mm Nominal

Cable Assembly

Cable Layer 1	4 x 1.0mm ² Cores core and 6 x 0.50mm ² Signal Pairs cabled together with fillers as required to achieve a uniform and concentric profile.
Drainwire	7/ 0.25mm TC
Foil Screen	Aluminium Polyester Foil > 100% Coverage
Bonded Outer Sheath	FRHF PU 85 Shore A Hardness to UL94 V2, Mud & Oil resistant to NEK606
Colour	Black
Radial Wall Thickness	1.80mm nominal
Diameter	15.0mm +/-0.5mm

CABLE CHARACTERISTICS

Operating Temperature	-40°C to +80°C
Cable Weight in Air	222 Kgs/Km
Cable Weight in Water	43.5 Kgs/Km
Bend Radius Static	5X Diameter
Bend Radius Dynamic	10X Diameter