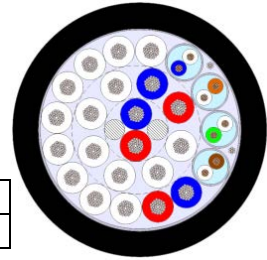


CRE19771



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

DESCRIPTION

Power & data 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]
0.24mm ² Data Cores	8	19/0.127mm BC	76.8	2.9	1.25mm
1.0mm ² Power Cores	21	32/0.2mm TC	19.5	12.8	2.50mm

CONSTRUCTION

0.24mm² Encapsulated Data Pairs designed with reference to Gigabit Ethernet / ISO11801

Colours	White/Green, White/Orange, White/Blue, White/Brown
Insulation	Cellular polyolefin
Insulation Diameter	1.25mm Nominal
Component Bedding	Olefinic based hot melt encapsulate
Foil Screen	Aluminium / Polyester Laminate >100% Coverage
Component Diameter	2.90mm Nominal

1.0mm² Power Cores designed with reference to IEC 60502

Conductor	Tinned Copper as per IEC 60228
Colours	3xBlue, 3xRed, 15xWhite
Insulation	HDPE
Insulation Diameter	2.50mm Nominal

Cable Assembly

Cable Layer 1	4 x 0.24mm ² Data Pair Components, 21 x 1.0mm ² Cores cabled together in a concentric configuration to achieve a uniform profile.
Drainwire	2 x 0.22mm ² 7/0.2mm 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	1.60mm nominal
Diameter	19.0mm +/-0.5mm

CABLE CHARACTERISTICS

Operating Temperature	-40°C to +80°C
Cable Weight in Air	428 Kgs/Km
Cable Weight in Water	141 Kgs/Km
Bend Radius Static	5X Diameter
Bend Radius Dynamic	10X Diameter