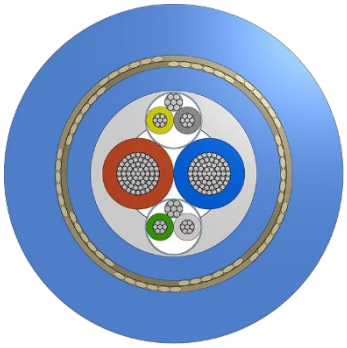
Power & data cable
Type 2019KCC



Construction characteristics

2 x Screened twisted pairs	0.22 mm² (7/0.20 mm) Tinned Copper Polyolefin insulated to 1.15 mm 2 off twisted with Tinned Copper drain wire in interstice Overall helical 12/23µm Ali/PET foil screen, minimum overlap 50% OD: 2.5 mm Colour: YW/GY GN/WH
2 x Conductors	2.00 mm² (63/0.20 mm) Tinned Copper HDPE insulated, 0.80 mm nom RTI OD: 3.0 mm Colour: BN BU
Lay up	Conductors and twisted pairs twisted together with fillers in interstices OD: 6.00 mm
Encapsulation	PVC 0.50 mm nom RTI OD: 7.00 mm Colour: WH
Bedding	Polyether Polyurethane 85 Shore A Halogen Free 1.00 mm nom RTI OD: 9.00 mm Colour: BU
Strength member	Vectran® fibre braid 24/2/1/1666 dTex OD: 10.00 mm
Jacket	Polyether Polyurethane 85 Shore A Halogen Free 2.15 mm nom RTI OD: 14.30 mm +/- 0.30 Colour: BU

Mechanical characteristics

Max. operating temp	+80°C
Cold flex temp	-20°C
Min. break load	15 kN
Recommended safe workload	3 kN
Depth rating	5,000 m

Mechanical characteristics

Min. recommended bend radius	
Static	115 mm
Dynamic	215 mm
Nominal weight	
In Air	218 kg/km
In seawater	54 kg/km at SG 1.025

Electrical characteristics

0.22 mm² conductors	
Max. conductor resistance	96.20 Ω/km at 20°C
Max. recommended voltage	24 V
Calculated characteristic impedance	88 Ω
Calculated capacitance	75 pF/m
Test voltage	1,500 V DC for 1 min
2.00 mm² Conductors	
Maximum conductor resistance	10.00 Ω/KM at 20°C
Max. recommended voltage	600 V
Max. recommended current/conductor	16 A
Test Voltage	3,000 V DC for 1 minute
Min. insulation resistance	
Core - Core	> 500 MΩ/km at 250V
Core - Screen	> 250 MΩ/km at 250V
In compliance with	CE, UK CA, UK NI, RoHS, LVD