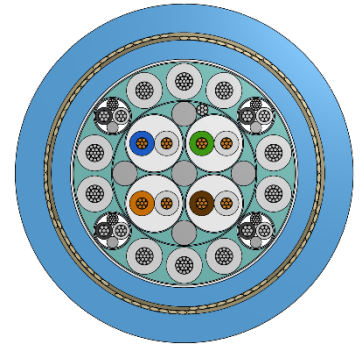


Power & Data cable

Type 9880KCC



Construction characteristics

1 x Data cable	<p>24 AWG 0.22mm² (7/0.20mm) plain soft copper, HDPE insulated to 1.30 mm, 2 off twisted together differential lays of 10mm, 12mm, 14mm & 16mm with PVC encapsulation to 3.00mm Overall helical 12/23µm AlI/PET foil screen, min. overlap 50% - Foil out</p> <p>4 off cabled together around a central filler with fillers and a Tinned Copper drain wire in the interstice. All voids filled with vulcanised silicone compound Overall helical 12/23µm AlI/PET foil screen, minimum overlap 50% Colour: BU/WH, OR/WH, GN/WH, BN/WH OD: 7.70 mm</p>
4 x Screened twisted pairs	<p>24AWG 0.22mm² (7/0.20mm), Tinned Copper Strand, Polyolefin insulated to 0.90mm, 2 off twisted together with 24AWG (19/0.127mm) Tinned Copper drain wire and filler in the interstices Overall helical 12/23µm AlI/PET foil screen, minimum overlap 50% Overall helical PET binding tape, minimum overlap 50% Numbered tapes 1 – 4 Colour: BK/WH OD: 2.00 mm</p>
10 x Conductors	<p>20AWG 0.50mm² (16/0.20mm), Tinned Copper, XLPE insulated, 0.50mm nom RTI, Printed numbers 1 - 10 at 50mm intervals in black Colour: WH OD: 1.90 mm</p>
Lay up and overall screen	<p>The screened twisted pairs, conductors, are arranged around the centre Data cable. All voids filled with vulcanised silicone compound. Overall helical PET binding tape, minimum overlap 30% Overall helical non-woven polyester tissue tape, minimum overlap 30% OD: 12.00 mm</p>
Bedding	<p>Polyether Polyurethane, 89 Shore A, Halogen free, 1.00mm nom RTI Colour: BU OD: 14.00 mm</p>
Strength member	<p>Vectran® fibre braid, 24/3/1679dTex, Nominal optical coverage 95% OD: 14.80 mm</p>
Jacket	<p>Hard Grade Polyether Polyurethane, 53 Shore D, Halogen Free 1.50mm nom RTI Colour: BU RAL5015 OD: 17.80 mm ± 0.50 mm</p>

Mechanical characteristics

Max. operating temp	
Static	+70°C
Dynamic	+60°C
Cold flex temp	-20°C
Depth rating	6,000 m
Min. break load	20.0 kN
Max. Safe work load	5.0 kN
Min. recommended bend radius	
Static	143 mm
Dynamic	267 mm
Nominal weight	
In air	365 kg/km
In seawater at SG 1.025	110 kg/km

Electrical characteristics

Data cable

Maximum Conductor Resistance	91.70 Ω/km @ 20°C
Nominal Characteristic Impedance	104Ω
Nominal Capacitance	68 pF/m
Calculated Inductance	0.60 mH/km

0.5 mm² conductors

Maximum Conductor Resistance	40.20 Ω/km @ 20°C
Voltage Rating U _o /U	600/1,000 V _{rms}
Maximum Current/Conductor	3 A
Insulation Resistance (Core - Core)	>10.0 GΩ/km @ 1.0kVdc
Maximum Volt Drop	88 mV/m/Amp load

0.22 mm² conductors

Maximum Conductor Resistance	91.70 Ω/km @ 20°C
Voltage Rating	250 Vdc
Maximum Current/Conductor	2 A
Insulation Resistance (Core – Core)	>10.0 GΩ/km at 50Vdc
Maximum Volt Drop	200 mV/m/Amp load

Maximum continuous production length

1000 meter

Print details

Text: MacArtney Power & Data cable, type 9880KCC MM/YY <meter mark>
repeated every 1000 mm
Colour: BK

In compliance with

CE, UK CA, UK NI, RoHS, LVD