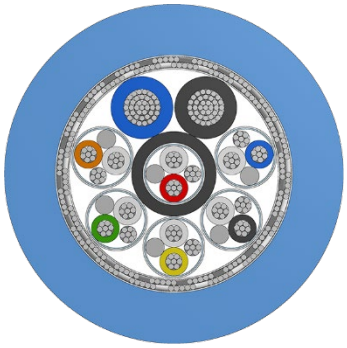
Power & data cable
Type 4622CC



Construction characteristics

2 x Conductors	1.00 mm^2 (32/0.20 mm) Tinned Copper XLPE insulated, 0.45 mm nom RTI OD: 2.20 mm Colour: BU BK
5 x Screened twisted pairs	0.22 mm² (7/0.20 mm) Tinned Copper Polyolefin insulated to 1.00 mm 2 off twisted together with Tinned Copper drain wire and filler in interstices Overall helical 12/23µm Ali/PET foil screen, minimum overlap 50% Overall helical PET isolation tape, minimum overlap 50% OD: 2.20 mm Colour: BU/WH BK/WH YW/WH GN/WH OR/WH
1 x Jacketed screened twisted pairs	0.22 mm² (7/0.20 mm) Tinned Copper XLPE insulated to 1.00 mm 2 off twisted together with Tinned Copper drain wire and filler in interstices Overall helical 12/23µm Ali/PET foil screen, minimum overlap 50% Overall helical PET separation tape, minimum overlap 50% LLD PE jacketed, 0.40mm nom RTI OD: 3.00 mm Colour: RD/WH BK
Lay up	The conductors and screened twisted pairs are twisted around the jacketed screen twisted pair. Overall helical PET binding tape, minimum overlap 50% OD: 7.5 mm
Overall screen	0.20 mm Tinned Copper Braid Minimum optical coverage 85% Overall helical PET separation tape minimum overlap 50% OD: 8.40 mm
Jacket	Polyether Polyurethane 85 Shore A Halogen Free 1.80 mm nom RTI OD: 12.00 mm +/- 0.40 Colour: BU

Subject to change without notice. Visit MacArtney.com for latest revision

Mechanical characteristics

Max. operating temp	
Static	+90°C
Dynamic	+80°C
Cold flex temp	-40°C
Depth rating	6,000 m
Min. recommended bend radius	
Static	80 mm
Dynamic	120 mm
Nominal weight	
In air	204 kg/km
In seawater	88 kg/km at SG 1.025

Electrical characteristics

1.00 mm² conductors	
Max. conductor resistance	19.20 Ω/km at 20°C
Voltage rating	600 V DC
Test voltage	3,000 V DC for 1 min
0.22 mm² conductors	
Conductor resistance voltage	88.20 Ω/km at 20°C
Voltage rating	24 V DC
Test voltage	1,500 V DC for 1 min
Capacitance	85 pF/m
Impedance	60 ±5 Ω at 1-10 MHz
Attenuation	
1 MHz	10.0 dB/100 m
10 MHz	25.0 dB/100 m
Min. insulation resistance	
Core - Core	> 100 GΩ/km
Core - Screen	> 50 MΩ/km
Screen - Screen	> 10 MΩ/km
In compliance with	CE, UK CA, UK NI, RoHS, REACH, LVD
	PFAS-free

Subject to change without notice. Visit MacArtney.com for latest revision