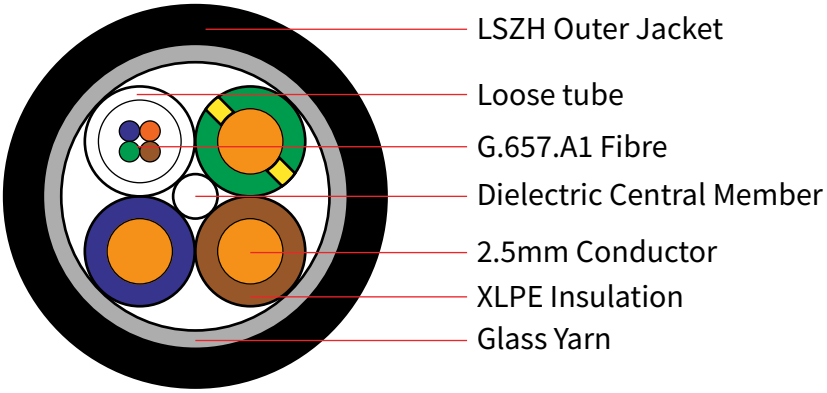
Product specification

Hughes Hybrid 4C + 3DC B2Ca

4C SM G.657.A2 + 3x 2.5mm



Description

This indoor dielectric armoured hybrid cable combines 4 single-mode G.657.A2 optical fibres with three 2.5²mm tinned copper power conductors. It features glass yarn anti-rodent protection, a halogen-free LSZH outer jacket, and meets strict B2ca CPR fire safety standards. Engineered for high mechanical and tensile performance, it is ideal for demanding telecommunication and power distribution installations.

Specification

Cable Construction Specifications	
Electrical	3x 2.5mm^2 tinned copper conductors
Optical	4x SM bend-insensitive fibres in loose tube
Dielectric Central Member	Fibre Reinforced Plastic
Peripheral Strength Member	Glass yarns – Rodent protection
Outer Jacket	LSZH, UV Resistant, Black
Cable dia.	13±0.5mm
Weight	240kg/km
Crush resistance	Long term - 1000N/10cm Short term - 3000N/10cm
Maximum Tension	Short term - 3000N
Minimum bending radius	210mm
CPR rating	B2Ca, s1a d1 a1
Fibre Specifications	
Fibre type	G.657.A2 (Singlemode Bend-Insensitive)
Fibre cable	Loose tube, white/natural
Fibre Colours	1 - Blue 2 - Orange 3 - Green 4 - Brown

The facts and figures contained herein are carefully complied to the best of our knowledge, but they are intended for general informative purposes only and are subject to change

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Product specification

Hughes Hybrid 4C + 3DC B2Ca

3x 2.5mm + 4C SM G.657.A2

Mode Field Diameter	8.4-9.2µm @ 1310nm 9.3-10.3µm @ 1550nm
Cladding Diameter	125.0 ± 0.5µm
Coating Diameter	242 ± 5µm
Core-Cladding concentricity error	≤0.5 µm
Cable Cut-off wavelength	≤1260nm
Optical Attenuation	≤0.35 dB/km @ 1310nm ≤0.25 dB/km @ 1460nm ≤0.21 dB/km @ 1550nm ≤0.23 dB/km @ 1625nm
Macro-Bending induced losses	1 turn around a 10mm radius mandrel: ≤0.75 dB @ 1550nm ≤1.5 dB @ 1625nm 10 turns around a 10mm radius mandrel: ≤0.25 dB @ 1550nm ≤1.0 dB @ 1625nm
DC Cable Specifications	
Conductor size	3 x 2.5mm^2
Insulation	XLPE
Insulation resistance	≥1000 MΩ*km
Colours (other available)	1 – Brown (EU) / White (UK) 2 – Blue 3 – Green/Yellow
Operating voltage	0.6/1 kV
Test voltage	3500V
Conductor resistance	≤8.21Ω/km
Environmental Specifications	
Installation Temperature	-5°C to +45°C
Operating Temperature	-15°C to +60°C
RoHS	Compliant

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