DATA SHEET

Hybrid cable fiber+coax

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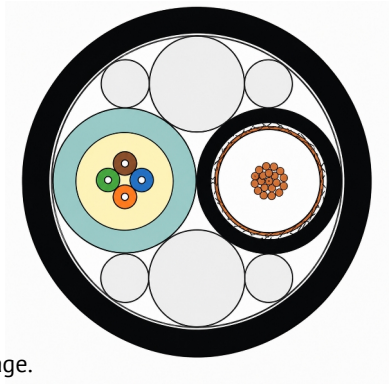

The product may differ from the image.

Product description

Hybrid cable featuring OM4 multimode optical fibers and a 50-ohm coaxial line for the simultaneous transmission of data and RF signals. The combined design reduces installation effort and enables a space-saving, cost-effective installation. Ideal for applications requiring both radio frequency and data connections to be routed to a common installation point.

Construction fiber element

Cable type	Fiber optic cable with tight-buffered fibers unarmored
Fiber	1x 4 50/125 Multimode MM OM4, 250 µm diameter
Colours	Blue, orange, green, brown
Fiber coating	Polyamide coating, 850±50 µm diameter
Strain relief elements	Aramidic yarns
Sheath	PVC turquoise, nom. diameter 6,5 mm

Construction coax element

Inner conductor	Stranded bare copper wire, 19 x 0,38 mm, 14 AWG
Insulation	Foam polyethylene (PEG)
Foil	Cu/PET foil ongitudinally overlapped
Shield braiding	braiding of bare copper wires, coverage 85 %
Jacket	PVC black, nom. diameter 7,3 mm

Construction hybrid cabel

Total cabling	The elements are cabled together with suitable fillers and plastic wrapping.
Outer sheath	PVC black
Outer diameter	17,2 mm

Technical data

Weight	350 kg/km
Min. bending radius	15 x outer diameter
Temperature range	Flexible/installation: -5°C to +65°C Static/working: -20°C to +80°C

Tensile strength (IEC 60794-1-21-E1)	Flexible/installation: 3000 N Static/working: 1000 N
Fire behaviour	Flame retardant acc. to IEC 60332-1-2

Electrical data fiber element

Attenuation	< 2,8 dB/km at 850 nm < 1 dB/km at 1300 nm

Electrical data coax element

Max. conductor resistance (20 °C)	9 Ω/km	
Impedance	50 ± 2 Ω	
Capacitance	80 pF/m	
Velocity ratio	80 %	
Screening attenuation	⩾ 90 dB	
Attenuation	5 MHz: 1,52 dB 50 MHz: 4,40 dB 200 MHz: 8,59 dB 432 MHz: 12,92 dB 800 MHz: 18,05 dB	1000 MHz: 20,76 dB 1500 MHz: 26,60 dB 2000 MHz: 31,20 dB 4000 MHz: 50,90 dB 4800 MHz: 58,40 dB