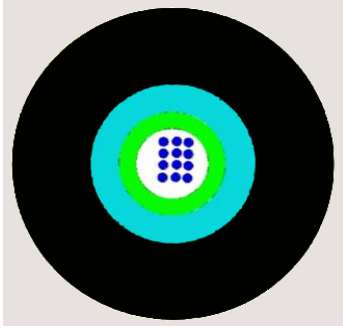


Universal Cable



Application and installation

This cable can be used for LAN and WAN backbones, telecom access lines, fibre to business and fibre to the building drop connections as well as fibre to the home drop and access connections.

With its FireRes® LSHF-FR sheathing this cable is ideal for indoor and limited outdoor installations. This cable features a high tensile strength and a degree of rodent protection, effective in many cases. It is equally suited for installation in ducts and on trays.

Standards

ISO 11801-1, EN 50173-1, IEC 60794-1, EN 50575

Flame resistance

LSHF-FR (FRNC): IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2; EN 50399 Class D_{ca}s2d1a1

Construction

Loose tube	ø2.8 mm gel-filled loose tube with 2 – 24 fibres
Strength member	Water-blocked E-Glass fibre elements
Sheath	1.5 mm sheath, halogen free, flame retardant, UV stabilised, IEC 50290-2-27

Physical Properties

Attribute	IEC 60794-1-21/22 Method	Limits
Nominal outer diameter	-	2 - 24 fibres: 7.3 mm
Nominal weight	-	2 - 24 fibres: 65 kg/km
Maximum installation tensile strength	E1	3000 N (fibre strain ≤ 0.6%)
Permanent tensile strength	E1	1000 N (fibre strain ≤ 0.2%)
Compressive strength (crush)	E3	3500 N / 100mm
Impact	E4	20 Nm (no attenuation change, no broken cable elements)
Torsion	E7	5 cycles ± 1 turn
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter of 200 mm
Min. bending radius, unloaded (permanent)	E11	R = 73 mm
Min. bending radius, loaded (installation)	-	R = 146 mm
Temperature range	F1	Storage: -40°C to +60°C (short term up to 70 °C) Installation: -15°C to +40°C Operation: -30°C to +70°C.
Water penetration	F5B	No water on free end
Heath of combustion	-	2 - 24 fibres: 1100 MJ/km = 0,31 kWh/m

Construction

Loose tube	ø2.8 mm gel-filled loose tube with 2 – 24 fibres		
Fibre colour code	1	Red	13 Red w/mark every 70mm
	2	Green	14 Green w/mark every 70mm
	3	Blue	15 Blue w/mark every 70mm
	4	Yellow	16 Yellow w/mark every 70mm
	5	White	17 White w/mark every 70mm
	6	Grey	18 Grey w/mark every 70mm
	7	Brown	19 Brown w/mark every 70mm
	8	Violet	20 Violet w/mark every 70mm
	9	Turquoise	21 Turquoise w/mark every 70mm
	10	Black	22 White w/mark every 35mm
	11	Orange	23 Orange w/mark every 70mm
	12	Pink	24 Pink w/mark every 70mm
Strength member	Water-blocked E-Glass fibre elements		
Cable Sheath colours	Cable with SM fibres: G.657.A2, G.657.A1		Yellow, RAL 1018
	Cable with OM1		Grey, RAL 7037
	Cable with OM2		Orange, RAL 2009
	Cable with OM3		Aqua, RAL 6027
	Cable with OM4		Erika-Violet, RAL 4003
	Cable with OM5		Lime-Green
Sheath	1.5 mm sheath, halogen free, flame retardant, UV stabilised, IEC 50290-2-27		

Product Codes

Product Code	Product Description	Fibre Count	Fibre Type
11017383	Cable in/out I/A-DQ(ZN)BH 4G50/125 OM3 Dca Black	4	OM3
	Cable in/out I/A-DQ(ZN)BH 6G50/125 OM3 Dca Black	6	OM3
11017384	Cable in/out I/A-DQ(ZN)BH 8G50/125 OM3 Dca Black	8	OM3
11017385	Cable in/out I/A-DQ(ZN)BH 12G50/125 OM3 Dca Black	12	OM3
	Cable in/out I/A-DQ(ZN)BH 24G50/125 OM3 Dca Black	24	OM3
	Cable in/out I/A-DQ(ZN)BH 4G50/125 OM4 Dca Black	4	OM4
	Cable in/out I/A-DQ(ZN)BH 6G50/125 OM4 Dca Black	6	OM4
	Cable in/out I/A-DQ(ZN)BH 8G50/125 OM4 Dca Black	8	OM4
	Cable in/out I/A-DQ(ZN)BH 12G50/125 OM4 Dca Black	12	OM4
	Cable in/out I/A-DQ(ZN)BH 24G50/125 OM4 Dca Black	24	OM4
	Cable in/out I/A-DQ(ZN)BH 4G50/125 OM5 Dca Black	4	OM5
	Cable in/out I/A-DQ(ZN)BH 6G50/125 OM5 Dca Black	6	OM5
	Cable in/out I/A-DQ(ZN)BH 8G50/125 OM5 Dca Black	8	OM5
	Cable in/out I/A-DQ(ZN)BH 12G50/125 OM5 Dca Black	12	OM5
	Cable in/out I/A-DQ(ZN)BH 24G50/125 OM5 Dca Black	24	OM5
11017386	Cable in/out I/A-DQ(ZN)BH 4G9/125 SM Dca Black	4	OS2
	Cable in/out I/A-DQ(ZN)BH 6G9/125 SM Dca Black	6	OS2
11017387	Cable in/out I/A-DQ(ZN)BH 8G9/125 SM Dca Black	8	OS2
11017388	Cable in/out I/A-DQ(ZN)BH 12G9/125 SM Dca Black	12	OS2
11017389	Cable in/out I/A-DQ(ZN)BH 24G9/125 SM Dca Black	24	OS2