



APPLICATION

- As backbone in LAN's
- For premises wiring
- Indoor and outdoor
- installation in ducts, on facades of buildings and for hanging air tracks between buildings

GENERAL

This specification covers a series of cables with 2 to 24 fibres. The cables consist of 900 µm tightly buffered fibres in a common sheath.

The cables have halogen-free and corrosion-resisting construction with non-metallic rodent protection.

The UV stabilised sheath makes the cables suited also for outdoor use.

The cables are LSOH and fulfill the fire propagation test of IEC 60332-1, EN 50265.

CABLE CONSTRUCTION

OPTICAL FIBRES

The 900 µm tightly buffered fibres (multimode OM1, OM2 or OM3, singlemode OS1/G652d) are individually coloured for identification.

CABLE CORE

The fibres are bundled with glass yarns to form the core. The reinforcement glass fibres are unpleasant and disagreeable for most rodents, and thus give the cable a degree of rodent protection.

SHEATH

The nominal thickness of the sheath is 1.1 mm.

The sheath material fulfils the requirements of EN 50290-2-27:2002.

The standard colour is black.

Printing example: KELINE SYSTEM - Optical Fibre Cable 4x(50/125) OM2 - TB004M5 - LSOH - Rodent Protected - length marking in m

CABLE PROPERTIES

Number of fibres	2	4	6	8	12	16	24
Nominal cable diameter [mm]	6.0	6.0	6.3	6.7	7.2	7.5	8.5
Nominal cable weight [kg/km]	33	35	40	50	55	60	90
Minimum bending radius IEC 6079 4-1 E11 or EN 187 000 513 Long term/short term [mm]	120/60	120/60	126/63	134/67	144/72	150/75	230/115
Permanent tensile strength (for the life of the cable) [N] IEC 60794-1 E1 or EN 187 000 501	650	650	650	850	850	850	850
Short term tensile strength (some days) [N] IEC 60794-1 E1 or EN 187 000 501	1000	1000	1000	1000	1000	1400	1600
Maximum installation load (a few hours) [N]	1500	1500	1500	1700	1700	2100	2400
Impact IEC 60794-1-E4 or EN 187 000 505	15 J (Nm)						
Compressive strength (Crush) IEC 60794-1-E3 or EN 187 000 504	2000 N/100 mm						
Torsion IEC 60794-1-E7 or EN 187 000 513	5 cycles ± 1 turn						
Temperature range IEC 60794-1 F1 or EN 187 000 601	Operation and installation: -20°C to 70°C Storage: -40°C to 70°C						
Properties in case of fire	IEC 60332-1 / EN 50265 IEC 61034 / EN 50268 IEC 60754-2 / EN 50267						

ORDERING INFORMATION

Multimode 50/125µm

P/N	Description
TB004M5	4-fibre 50/125 (OM2), LSOH (J/A-V(ZN)BH)
TB008M5	8-fibre 50/125 (OM2), LSOH (J/A-V(ZN)BH)
TB012M5	12-fibre 50/125 (OM2), LSOH (J/A-V(ZN)BH)
TB024M5	24-fibre 50/125 (OM2), LSOH (J/A-V(ZN)BH)

Multimode 50/125µm

P/N	Description
TB004MOM3	4-fibre 50/125 (OM3), LSOH (J/A-V(ZN)BH)
TB008MOM3	8-fibre 50/125 (OM3), LSOH (J/A-V(ZN)BH)
TB012MOM3	12-fibre 50/125 (OM3), LSOH (J/A-V(ZN)BH)

Multimode 62.5/125µm

P/N	Description
TB004M6	4-fibre 62.5/125 (OM1), LSOH (J/A-V(ZN)BH)
TB008M6	8-fibre 62.5/125 (OM1), LSOH (J/A-V(ZN)BH)
TB012M6	12-fibre 62.5/125 (OM1), LSOH (J/A-V(ZN)BH)

Singlemode 9/125µm

P/N	Description
TB004SM	4-fibre 9/125 (OS1/G.652d), LSOH (J/A-V(ZN)BH)
TB008SM	8-fibre 9/125 (OS1/G.652d), LSOH (J/A-V(ZN)BH)
TB012SM	12-fibre 9/125 (OS1/G.652d), LSOH (J/A-V(ZN)BH)
TB024SM	24-fibre 9/125 (OS1/G.652d), LSOH (J/A-V(ZN)BH)