

MAUNT

M00000154

**Microduct cable, HDPE, 288-fiber, SM, G.657A1, 200um, 7.9mm,
black, STL**



Description

Single-sheath microduct cable, intended for blowing into microducts. It is a loose tube cable in which the fibers lie in tubes stranded around a central strength member of fiber-reinforced plastic (FRP). The tubes are filled with water-blocking gel; the cable core is longitudinally watertight by means of a binder and water-swellaable yarns. The cable has a UV-resistant HDPE sheath with one ripcord underneath.

Brand

STL

Physical specifications

Outer sheath material	UV-resistant HDPE
Color	Black
Diameter	7.9 ± 0.3 mm
Weight	70 kg/km ± 10%
Central strength member	FRP (fiber-reinforced plastic)
Number of tubes	24 (9 + 15)
Tube color sequence	Same sequence as the fibers; tubes above 12 with black longitudinal stripe
Core wrapping	Binder and water-swellable yarns
Number of ripcords under sheath	1
Suitable for microduct	Inner diameter 10 mm

Mechanical specifications

Tensile strength (max.)	800 N (IEC 60794-1-21-E1)
Crush resistance	500 N/10 cm (IEC 60794-1-21-E3A)
Impact resistance	2 N·m (IEC 60794-1-21-E4)
Torsion	±180° (IEC 60794-1-21-E7)
Repeated bending	20 x D (IEC 60794-1-21-E6)
Bend test	20 x D (IEC 60794-1-21-E11A)
Minimum bend radius (during installation)	20 x D
Minimum bend radius (after installation)	15 x D
Water penetration test	1 m water column, 3 m samples, 24 hours (IEC 60794-1-21-F5B)
Drip test	30 cm, 70°C, 24 hours (IEC 60794-1-21-E14)

Optical specifications

Fiber type	SM, ITU-T G.657.A1/G.652.D, 200µm
Number of fibers	288
Fibers per tube	12
Attenuation (max., in cable)	1310 nm: 0.35 dB/km; 1550 nm: 0.23 dB/km; 1625 nm: 0.26 dB/km
PMD (link design value)	≤ 0.1 ps/√km
Mode field diameter (1310 nm)	9.2 ± 0.4 µm
Fiber color sequence (DIN/VDE 0888)	Red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink



Environmental specifications

Installation temperature	-5°C to +50°C
Operating temperature	-30°C to +70°C
Storage temperature	-40°C to +70°C

Classification codes and standards

Standards	IEC 60793; IEC 60794-5-10; IEC 60794-1-21; IEC 60794-1-22 (F1); ITU-T G.657.A1/G.652.D; DIN/VDE 0888
Certification	CE
Fire safety	CPR Fca
Environmental/substance compliance	RoHS, REACH