

MAUNT

M00000933

Microduct cable, 96-fiber, SM, G.657A1, 250um, 6.5mm, black, STL



Description

This microduct cable has a single sheath. It is a loose tube cable with optical fibers placed in tubes stranded around a fiber-reinforced plastic strength member. In addition to the fibers, the tubes contain water-blocking gel, and the cable core is sealed to prevent water from penetrating the interstices of the core. The cable has a thermoplastic sheath.

Brand

STL

Optical specifications

Fiber type	SM, ITU-T G.657A1, 250µm
Number of fibers	96
Fibers per tube	12
Attenuation (dB/km)	1310nm: 0.35 & 1550nm: 0.23
PMD (ps/√km)	≤ 0.1
Fiber color sequence	Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua

Physical specifications

Material type/composition (sheath)	UV-resistant polyethylene
Color	Black
Diameter	6.5 ± 0.3mm
Weight	41 ± 10% kg/km
Central strength member	FRP (glass fiber-reinforced plastic)
Number of tubes in layer 1	8
Tube color sequence	Blue, Orange, Green, Brown, Gray, White, Red, Black
Number of ripcords under sheath	1

Mechanical specifications

Tensile strength	500N (IEC-60794-1-21-E1)
Crush resistance	500N/100mm (IEC-60794-1-21-E3)
Impact resistance	2Nm (IEC-60794-1-21-E4)
Torsion	±180° (IEC-60794-1-21-E7)
Minimum bend radius (during installation)	20D (IEC-60794-1-21-E11)
Minimum bend radius (after installation)	10D (IEC-60794-1-21-E11)
Water penetration test	1m water head, 3m samples, 24 hours (IEC-60794-1-22-F5)
Drip test	30cm, 70°C, 24 hours (IEC-60794-1-21-E14)

Environmental specifications

Installation temperature	-10°C to +70°C
Operating temperature	-40°C to +70°C
Storage temperature	-40°C to +70°C
Temperature performance	maximum change in attenuation ≤ 0.15dB/km (IEC-60794-1-22-F1)



Classification codes and standards

Standards	IEC 60793, IEC 60794-5-10, ITU-T
Environmental/substance compliance	RoHS, REACH