

UC optical fibre cables

- Outdoor in ducts or direct burial
- Corrugated steel tape armour
- Gel filled tube
- Standard or laser optimised fibres for extended distances
- Provides full rodent protection
- Low Smoke Zero Halogene (LSZH)

Description

Application

Nexans UC loose tube fibre cables have been designed for applications where a high level of installation, environmental and optical features are required.

The construction is suitable for use outdoor in ducts and for direct burial. It consists of a corrugated steel tape armouring providing full rodent protection. The tube is gel filled and has a capacity of up to 24 fibres. It is surrounded by glass yarns. The cable has a LSZH outer jacket.

Applications support :

- Fast Ethernet 100 base FX
- 1Gbase SX - LX
- 10Gbase SR - LW - LX4 - LR - LRM
- Fibre Channel Serial 1G
- Fibre Channel Serial 2G
- Fibre Channel Serial 4G
- Fibre Channel Serial 10G



LANmark-OF



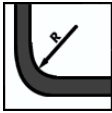

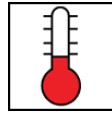
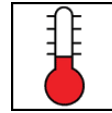
Performance

Nexans loose tube fibre cables are available with a choice of fibres which include laser optimised solutions. These allow Gigabit applications to run over extended distances saving considerable expense on active equipment.

Construction

Legend accompanying the cross section drawing:

1. Gel filled tube containing up to 24 individually coloured fibres
2. Glass yarns reinforcement
3. Corrugated steel tape armour
4. LSZH outer sheath

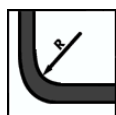
					
Flame retardant Yes	operation bending rad. 170.0 mm	static bending rad. 120.0 mm	Storage temperature, range -30 .. 60 °C	Operating temp. range -20 .. 60 °C	Ambient install temp, range (°C) 0 .. 40 °C

Contact

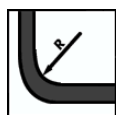
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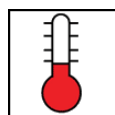
Flame retardant
Yes



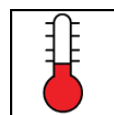
operation bending
rad.
170.0 mm



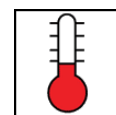
static bending rad.
120.0 mm



Storage temperature,
range
-30 .. 60 °C



Operating temp.
range
-20 .. 60 °C



Ambient install temp, range
(°C)
0 .. 40 °C

Characteristics

Construction characteristics

Type of cable	Unitube (UT)
Armour type	Corrugated steel
Material of filler / inner sheath	Gel
Protection	Glass yarns
Outer sheath	LSZH-FR
Fiber optic type	SingleMode 9/125

Dimensional characteristics

Number of optical fibres	6
Number of tubes	1
Nominal outer diameter (mm)	8.5 mm
Approximate weight (kg/km)	75 kg/km

Transmission characteristics

Attenuation, nom. 1550 nm (cabled)	0.22 dB/km
Attenuation, max. 1550 nm (cabled)	0.28 dB/km
Attenuation, nom. 1300 nm (cabled)	0.35 dB/km
Attenuation, max. 1300 nm (cabled)	0.42 dB/km

Mechanical characteristics

Maximum tensile load during service	40.0 daN
Crush resistance (IEC 60794-1-2-E3)	300 N/cm

Usage characteristics

Installation type	Outdoor - Direct burial
Flame retardant	Yes
Rodent protection	High
Laying operation bending radius	170.0 mm
Minimum static operating bending radius	120.0 mm
Storage temperature, range	-30 .. 60 °C
Operating temperature, range	-20 .. 60 °C
Ambient installation temperature, range (°C)	0 .. 40 °C