

96-144F Loose Tube / Direct Bury All-Dielectric Fibre Cable

Application

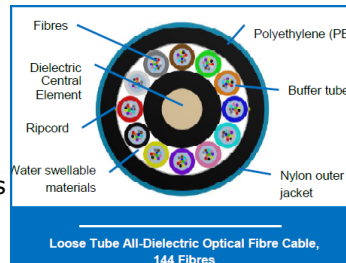
- This specification covers the general requirements for 96-144F all-dielectric, loose tube cables.

Cable Description

- Ideal for use in congested pathways, ducts and pipes our all-dielectric, loose tube cables are designed for outdoor use in duct or direct burial installation. The loose tube design features gel filled buffer tubes arranged around a dielectric central strength member, with dry water-blocking materials bound inside a polyethylene sheath with blue nylon outer jacket as the standard option.
- The cable features SZ-stranded buffer tubes which isolate fibres from installation and environmental rigours, while allowing easy midspan access.
- The loose tube cable design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fibre.

Features and Benefits

- All-dielectric cable construction
- Requires no grounding or bonding
- Nylon outer jacket
- Insect resistant and UV-stabilised
- Interstitial water-blocking yarns/tapes
- Craft-friendly, no mess cable core
- Small, light, easy to install



Standards

- IEC 60794-1: Optical Fibre Cables, Part 1-1: Generic Specification General
- AS 1049.1: Telecommunications cables; Insulation, sheath and jacket - Materials
- AS/CA S008:2010, Requirements for customer cabling products.

Fibre Specifications

Fibre Type	Attenuation (dB/km)				Bandwidth (MHz.km)	
	850nm	1300nm	1310nm	1550nm	850nm	1300nm
OM1	3.5	1.0			200	500
OM3	3.0	1.0			1000	600
OM4	3.0	1.0			1100	600
OS2			0.35	0.22		
	Cutoff λ: ≤1260 nm		Proof Stress ≥0.69 GPa		Dispersion: 18.0 (1550 nm)	

Physical and Mechanical Properties

No. Of Fibres	No. of Tubes	Cable Mass (kg/km)	Cable OD (mm)	Min Bend Radius (mm)		Max Crush Res (kN/100mm)		Max Installation Tension (kN)
				No Load	Full Load	Long Term	Short Term	
96	6	92	10.7	107	214	1.0	2.0	2.5
120	8	126	12.2	122	244	1.0	2.0	2.5
144	12	153	13.6	136	272	1.0	2.0	2.5