



Specs and Techs: Micro Blown Cable

Description:

Micro Blown Cables are designed to be used with the Microduct system and installed using a blowing machine for long installations. It is constructed of Fibres inside multiple gel filled loose tubes which range from 12 fibre to 288 fibre cable. The cable is strengthened by a glass reinforced plastic (GRP) strength member with a high-density polyethylene outer sheath. The exterior is UV stabilised with a 2.5% evenly dispersed carbon black. This construction gives maximum flexibility while isolating the Fibres from installation and environmental rigours. UV stabilised with a 2.5% evenly dispersed carbon black.

Cable Structure:

- Thixotropic jelly filled loose tube design.
- Tubes SZ stranded around the central strength member.
- Water blocking yarns and tape are applied for cable core water ingress protection.
- Over sheathed with Black HDPE.
- One ripcord laid beneath the sheath.

Application:

- Small diameter, light weight, optimized for blowing or pushing into micro ducts.
- Superior blowing performance.
- Working temperature: -20°C~+70°C.
- 25-year life expectancy.

Characteristics:

- Fibre attenuation at 1310/1550nm: $\leq 0.35/0.21$ db/km.
- Fibre linear PMD: ≤ 0.06 ps/ $\sqrt{\text{km}}$ (M=20, Q=0.01%).
- Installation tensile resistance: 1.2 times cable weight, not less than 600N.
- Crush resistance: 650N.
- Water penetration: 3m sample, 1m water column, for 24h.
- Cable print: MBC, fibre count, fibre type, HFCL, production date, cable ID number, meter count.

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Parameter	Dimensions / Layout										Type	
Fibre Count	12F	24F	48F	72F	96F	144F	192F	216F	288F	396F		
Numbers of fibres per tube	12				24				36			Glass Fibre
Number of loose tubes	1	2	4	6	4	6	8	9	8	11	PBTP	
Number of Fillers	5	4	2	0	2	0				HDPE - Black		
Central Strength Member	1.9 ± 0.1mm		2.2 ± 0.1mm		2.2mm PE up coated to 3.2mm		2.7mm PE up coated to 3.8mm		3.5 ± 0.1mm		3.5mm PE up coated to 5.5mm	FRP Rod
Moisture Barrier	Over FRP Rod + Core										Water Swellable Yarn	
Outer Sheath	0.5mm (Nominal)										HDPE - Black/ Grey (RAL7001)	
Number of Ripcords	1										Polyester	
Cable Diameter	6.5 ± 0.5mm		7.5 ± 0.5mm		8.0 ± 0.5mm		8.5 ± 0.5mm			11.0 ± 0.5mm		
Cable Weight/km	35 ± 5kg/km		50 ± 5kg/km		55 ± 5kg/km		65 ± 5kg/km		70 ± 10 kg/km		110 ± 10 kg/km	

Colour Codes for Fibre and Tube



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