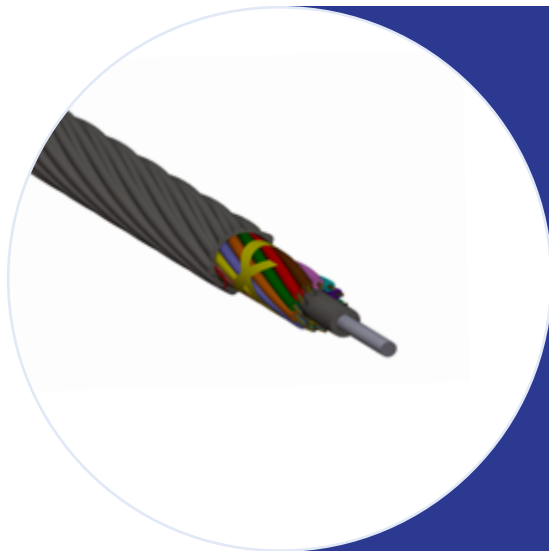


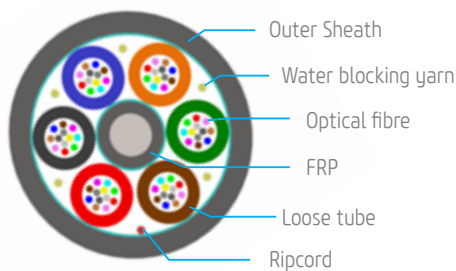
GryphonX™ Air Blown Cable

12 ~ 288 Fibres Super Slim Microcable



GryphonX™ Super Slim Microcable is specially designed for high density air blown network. 12~288F is suitable for both FTTH Network and long haul backbone project.

The unique tight bundle design make the cable much smaller than conventional cable. The non-metallic structural makes the cable lighter and more suitable for blowing in the microduct. This new technology solve the problem of underground duct limitation.



Cross section of part number:

< Not to scale >

Features and Benefits

Up to 288 fibres with less than 9.1mm OD can save the costing of duct.

Easily blown 2km distance in one go under good duct condition.

Tight bundle and non metallic design make the cable light and slim.

Trajectory design outer jacket can reduce the friction with duct inner sheath.

Nylon sheath can be chosen to improve the air blown performance.

Standards

Optic Fibre

ITU-T G 652D
IEC 60794-1-1
IEC 60794-1-2
IEC 60794-3
IEC 60794-5

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CHARACTERISTIC

Number of Fibre		12	24	48	72	96	144	192	216	288
Cross Section										
Loose Tube	Number	2	2	4	6	8	12	16	18	24
	Outer Dia. (mm)	1.20 ± 0.1	1.45 ± 0.1							
Filler	Number	4	4	2	0	0	0	2	0	0
Fibre Counts Per Tube (G. 652D)		6	12							
Central Strength Member	Material	FRP								
	Dia. (mm)	1.22	1.60			2.25		1.60		2.00
	Dia. of PE Lay	---	---			2.40	4.10	---		2.80
Water Blocking Method		Water Blocking Yarn								
Outer Sheath	Material	HDPE (Nylon as option)								
	Colour	BLACK (Nylon can choose Orange)								
	Thickness (mm)	0.50 mm (Approx.)								
Cable Dia. (± 0.2mm)		4.50	5.40			6.10	7.80			9.10
MicroDucts Dimension		8/6	10/8			12/10			14/12	
Cable Weight (Kg/Km)		16	26			29	48			74
MECHANICAL PERFORMANCE										
		Short Term					Long Term			
Tensile Performance (N)		1.0 G					0.3 G			
Crush (N/100mm)		450					150			
Min. Bending Radius (Static)		10 D								
Min. Bending Radius (Dynamic)		20 D								

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COLOURS

Fibre Colour Code						
6 Fibres Per Tube	1	2	3	4	5	6
	Blue	Orange	Green	Brown	Grey	White
12 Fibres Per Tube	1	2	3	4	5	6
	Blue	Orange	Green	Brown	Grey	White
	7	8	9	10	11	12
	Red	Black	Yellow	Purple	Pink	Aqua
Loose Tube and Filler Color Code						
Loose Tube Colour Code	1	2	3	4	5	6
	Blue	Orange	Green	Brown	Grey	White
	7	8	9	10	11	12
	Red	Black	Yellow	Purple	Pink	Aqua

OPTICAL FIBRE SPECIFICATION

Category	Description	Specification	
		Before Cable	After Cable
Geometrical Characteristics	Cladding diameter	125.0 ± 1µm	
	Cladding Non-Circularity	≤ 1.0 %	
	Core Concentricity error	≤ 0.6 µm	
	Coating diameter	245 ± 10 µm (Before Coloured) 250 ± 15 µm (coloured)	
	Coating/cladding concentricity error	≤ 12 µm	

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Category	Description	Specification	
		Before Cable	After Cable
Optical Characteristics	Mode field diameter at 1310 nm	9.2 ± 0.4 μm	
	Point discontinuity	≤ 0.05 dB	
	Attenuation at 1310 nm	≤ 0.34 dB/km	≤ 0.36 dB/km
	Attenuation at 1383 nm	≤ 0.34 dB/km	≤ 0.35 dB/km
	Attenuation at 1550 nm	≤ 0.21 dB/km	≤ 0.22 dB/km
	Attenuation at 1625 nm	≤ 0.23 dB/km	≤ 0.24 dB/km
	Dispersion in 1288 - 1339 nm	≤ 3.5 ps/(nm•km)	
	Dispersion in 1271 - 1360 nm	≤ 5.3 ps/(nm•km)	
	Dispersion at 1550 nm	≤ 18 ps/(nm•km)	
	Zero dispersion wavelength	1300 - 1324 nm	
	Zero dispersion slope	≤ 0.092 ps/(nm ² •km)	
	Cable cut-off wavelength	≤ 1260 nm	
	Polarization mode dispersion individual fibre	≤ 0.2 ps/√km	
	Polarization mode dispersion design link value (M=20, Q=0.01%)	≤ 0.1 ps/√km	
	Marco-bend loss (100 turns, 30mm radius, 1550/1625nm)	≤ 0.1 dB	
Mechanical Specification	Proof stress level	≥ 100Kpsi (0.69 GPa)	
	Coating strip force (peak value)	1.3 ~ 8.9N	
	Fibre curl (Radius)	≥ 4 m	
Working Condition	Transportation Temperature	-30°C ~ + 70°C	
	Storage Temperature	-30°C ~ + 70°C	
	Installation Temperature	-10°C ~ + 50°C	
	Operation Temperature	-30°C ~ + 70°C	