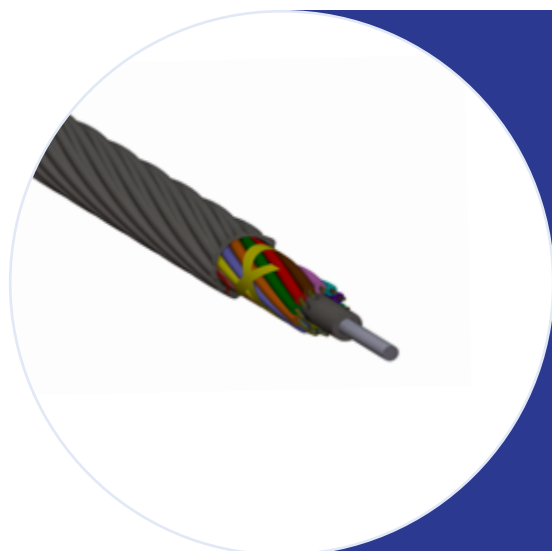


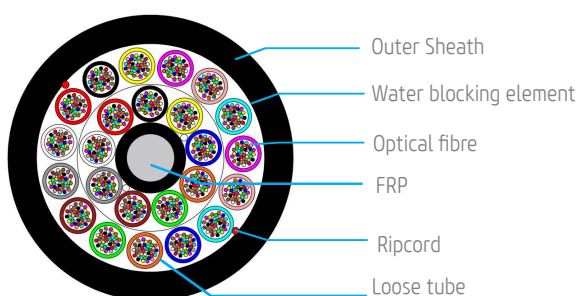
GryphonX™ Air Blown Cable

864 Fibres Super Slim Microcable



GryphonX™ Super Slim Microcable is specially designed for high density air blown network. 864F is suitable for 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

Ultra high fiber count 864 fibres with less than 13mm(200µm) 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

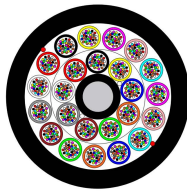
Optic Fibre

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		864	
Cross Section			
Loose Tube	Number	24	
Fiber Type		200µm	250µm
Fibre Counts Per Tube		36	
Central Strength Member	Material	FRP	
	Dia. (mm)	4.0	3.5
	Dia. of PE Lay	---	4.70
Water Blocking Method		Water Blocking Yarn	
Outer Sheath	Material	HDPE (Nylon as option)	
	Colour	BLACK (Nylon can choose Orange)	
	Thickness (mm)	0.40 mm (Approx.)	0.65 mm (Approx.)
Cable Dia. (Nominal)		12.5	15.5
MicroDucts Dimension		≥16	≥20
Cable Weight (Kg/Km)		133	205
MECHANICAL PERFORMANCE			
		Short Term	Long Term
Tensile Performance (N)		1000	500
Crush (N/100mm)		500	250
Min. Bending Radius (Static)		10 D	
Min. Bending Radius (Dynamic)		20 D	

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COLOURS

Fibre Color Code					
1	2	3	4	5	6
Blue	Orange	Green	Brown	Grey	White
7	8	9	10	11	12
Red	Black	Yellow	Violet	Pink	Aqua
13	14	15	16	17	18
Blue with single black ring	Orange with single black ring	Green with single black ring	Brown with single black ring	Grey with single black ring	White with single black ring
19	20	21	22	23	24
Red with single black ring	Natural with single black ring	Yellow with single black ring	Violet with single black ring	Pink with single black ring	Aqua with single black ring
25	26	27	28	29	30
Blue with 2 black ring	Orange with 2 black ring	Green with 2 black ring	Brown with 2 black ring	Grey with 2 black ring	White with 2 black ring
31	32	33	34	35	36
Red with 2 black ring	Natural with 2 black ring	Yellow with 2 black ring	Violet with 2 black ring	Pink with 2 black ring	Aqua with 2 black ring

Tube Color Code					
Inner 1	Inner 2	Inner 3	Inner 4	Inner 5	Inner 6
Blue	Orange	Green	Brown	Grey	White
Inner 7	Inner 8	Inner 9	Outer 1	Outer 2	Outer 3
Red	Black	Yellow	Violet	Pink	Aqua
Outer 4	Outer 5	Outer 6	Outer 7	Outer 8	Outer 9
Blue	Orange	Green	Brown	Grey	White
Outer 10	Outer 11	Outer 12	Outer 13	Outer 14	Outer 15
Red	Black	Yellow	Violet	Pink	Aqua

OPTICAL FIBRE SPECIFICATION

Category	Description	Specification	
		Before Cable	After Cable
Geometrical Characteristics	Cladding diameter	125.0 ± 1µm	
	Cladding Non-Circularity	≤ 0.7 %	
	Core Concentricity error	≤ 0.5 µm	
	Coating diameter	245 ±10 µm /200 ±10 µm (Before Coloured) 250 ±15 µm /210 ±10 µm (coloured)	
	Coating/cladding concentricity error	≤ 12 µm	

GryphonX™ Air Blown Cable

864 Fibres Super Slim Microcable

Category	Description	Specification	
		Before Cable	After Cable
Optical Characteristics	Mode field diameter at 1310 nm	$8.8 \pm 0.4 \mu\text{m}$	
	Point discontinuity	$\leq 0.05 \text{ dB}$	
	Attenuation at 1310 nm	$\leq 0.34 \text{ dB/km}$	$\leq 0.36 \text{ dB/km}$
	Attenuation at 1383 nm	$\leq 0.34 \text{ dB/km}$	$\leq 0.35 \text{ dB/km}$
	Attenuation at 1550 nm	$\leq 0.21 \text{ dB/km}$	$\leq 0.22 \text{ dB/km}$
	Attenuation at 1625 nm	$\leq 0.23 \text{ dB/km}$	$\leq 0.24 \text{ dB/km}$
	Dispersion in 1288 - 1339 nm	$\leq 3.5 \text{ ps}/(\text{nm}\cdot\text{km})$	
	Dispersion in 1271 - 1360 nm	$\leq 5.3 \text{ ps}/(\text{nm}\cdot\text{km})$	
	Dispersion at 1550 nm	$\leq 18 \text{ ps}/(\text{nm}\cdot\text{km})$	
	Zero dispersion wavelength	1300 - 1324 nm	
	Zero dispersion slope	$\leq 0.092 \text{ ps}/(\text{nm}^2\cdot\text{km})$	
	Cable cut-off wavelength	$\leq 1260 \text{ nm}$	
	Polarization mode dispersion individual fibre	$\leq 0.2 \text{ ps}/\sqrt{\text{km}}$	
	Polarization mode dispersion design link value (M=20, Q=0.01%)	$\leq 0.1 \text{ ps}/\sqrt{\text{km}}$	
	Marco-bend loss (100 turns, 30mm radius, 1550/1625nm)	$\leq 0.1 \text{ dB}$	
Mechanical Specification	Proof stress level	$\geq 100\text{Kpsi (0.69 GPa)}$	
	Coating strip force (peak value)	1.3 ~ 8.9N	
	Fibre curl (Radius)	$\geq 4 \text{ m}$	
Working Condition	Transportation Temperature	$-30^\circ\text{C} \sim +70^\circ\text{C}$	
	Storage Temperature	$-30^\circ\text{C} \sim +70^\circ\text{C}$	
	Installation Temperature	$-10^\circ\text{C} \sim +50^\circ\text{C}$	
	Operation Temperature	$-30^\circ\text{C} \sim +70^\circ\text{C}$	