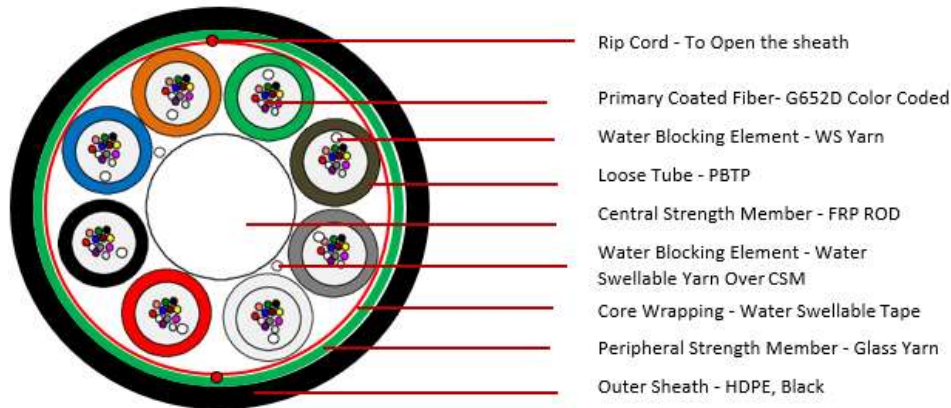


# OCCMGY-09G652XXX-SJ-IN



Optical Fiber Cable dielectric anti-rodent, Aerial (Lashed)  
non-Armored Multi-Tube Cable. 12F/ 24F/ 48F/ 96F/ 144F



DUCT optic cable containing LWP-SMF in full compliance with ITU-T G 652D. The offered cables are fully compliant to the relevant IEC specifications.

## Features:

Optical Properties		
Norma	ITU-T G.652D	
Fiber yarn count	12F / 24F / 48F/ 96F/ 144F	
Attenuation coefficient	1310nm	< 0.36 dB/Km
	1550nm	< 0.23 dB/Km
	1625nm	< 0.22 dB/Km
Point discontinuity	≤ 0.05 dB	
Diameter of modal field	Wavelength: 1310nm, 1550nm, 1625nm Nominal range: 9.2mm Tolerance: ± 0.4mm	
Cladding diameter (nominal)	125 mm ± 0,7 mm	
Primary coating diameter	245 ± 10 μm	
Proof test level	100 kpsi (=0.69 Gpa), 1%	
Core concentricity error	Máximo: 0,5 mm	
Non-circularity of the Cladding	Máximo: 1,0%	
Cut-off wavelength	Máximo: 1260 nm	
Chromatic dispersion coefficient	λ0mín	
	λ0máx	
	S0máx	
PMD coefficient (Polarization Mode Dispersion)	Máximo: 0,20 ps/√ km	
Chromatic dispersion	@ 1288 ~ 1339 nm	≤ 3.5 ps/(nm. km)
	@ 1271 ~ 1360 nm	≤ 5.3 ps/(nm. km)
	@ 1550 nm	≤ 18 ps/(nm. km)
	@ 1625 nm	≤ 22 ps/(nm. km)
Zero-dispersion wavelength	1300 ~ 1324 nm	
Zero-dispersion slope	≤0.092 ps/(nm <sup>2</sup> .km)	
Immersion in water, 23 °C ± 2 °C (at 1310 nm, 1550 nm and 1625 nm)	≤ 0,05 dB/km	

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Accelerated aging (heat aging), 85 °C ± 2 °C (at 1310 nm, 1550 nm y 1625 nm)	≤ 0,05 dB/km	
<b>Technical Properties</b>		
Fiber Type	G652D - OS2	
External covering material	HDPE	
Outer jacket color	Black	
Peripheral Strength Member	Glass Yarn	
Jacket protection	UV resistant	
Internal cable structure - Loose tube	OCCMGY-09G652006-SJ-IN	(1 buffer with 6 yarn)
	OCCMGY-09G652012-SJ-IN	(1 buffer with 12 yarn)
	OCCMGY-09G652024-SJ-IN	(2 buffer with 12 yarn)
	OCCMGY-09G652048-SJ-IN	(4 buffer with 12 yarn)
	OCCMGY-09G652096-SJ-IN	(8 buffer with 12 yarn)
	OCCMGY-09G652144-SJ-IN	(12 buffer with 12 yarn)
Central member structure	fiberglass-reinforced plastic (FRP).	
Configuration of the internal cable structure	SZ Braided, Thermoplastic Cylinders	
Tube Structure	Material	PTB
	Diameter (±0.05mm)	2.1mm
	Thickness (±0.03mm)	0.35mm
Tube filling compound	Dry Element (WS Yarn)	
Ripcord	2 Nos. below armor	
Water Blocking Material	Core wrapping	Water blocking tape
	Water blocking media	Water Swellable Yarn Over CSM
Color code	TIA 598 D Standard	
Repeated bending IEC 60794-1-2-E6	25 Cycle, r= 20 X D, 5 Kg, D = Cable Diameter	
Bending radius IEC 60794-1-E11	During Installation	20 x D, D = Cable Diameter
	During Operation	15 x D, D = Cable Diameter
Cable Exterior Diameter (cable OD)	6F-24F	11 ± 5mm
	48F	11 ± 5mm
	96F	13.5 ± 5mm
	144F	15.5 ± 5mm
Drum length x Km	2Km/4 Km ± 5%	

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<b>Cable weight (kg / km)</b>	6F-24F	Max: 85 kg/km
	48F	Max: 80 kg/km
	96F	Max: 125 kg/km
	144F	Max: 190 kg/km
<b>Tensile strength IEC 60794-1-2-E1</b>	Short Term	2700 N
	Long Term	1600 N
<b>Torsion Resistance IEC 60794-1-E7</b>	10 Cycle ( $\pm 180^\circ$ ) with 100N weight, L= 2Mtr	
<b>Crush Resistance IEC 60794-1-E3</b>	Short term	4000 N/10Cm
	Long term	2000 N/10Cm
<b>Temperature range (IEC 60794-1-F1)</b>	Operation	-40° to +70°C
	Installed	-20 °C to +70 °C
	Storage and Shipping	-40° to +75°C
<b>Cable breaking strength (RTS)</b>	6F-24F	9.0KN
	48F	9.4KN
	96F	10.2KN
	144F	11.4KN
<b>Impact strength IEC 60794-1-2-E4</b>	4.4 Nm	
<b>Working Tension (MAT)</b>	6F-24F	3.6KN
	48F	3.8KN
	96F	4.1KN
	144F	4.5KN
<b>Water Penetration IEC 60794-1-F5</b>	1 Meter Water Head, 3 Meter Cable Sample, 24 Hours	
<b>Color of tubes - Standard Tia 598C</b>	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose (Pink), Aqua	

Cable Physical Characteristics					
<b>Fiber Count</b>	<b>12</b>	<b>24</b>	<b>48</b>	<b>96</b>	<b>144</b>
Number of Fibers in each Loose Tube	12				
Number of Loose Tube in each cable	1	2	4	8	12
Number of Filler (if required)	4	3	1	0	0
Number of layers of SZ stranded	1				
Cable Diameter (mm)	11.0		13.5		16.5
Tolerance $\pm$ (mm)	0.5				
Nominal Cable Weight (kg/km)	85		125		190
Standard Length (meters)	4000 $\pm$ 5%				2000 $\pm$ 5%

Fiber & Loose Tube Color Identification												
Fiber Color	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua
Loose Tube Color	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua
Color of filler	Black											