

Fiber Optic Drop Cable with Messenger



NT-FTTX-x-yy-DM

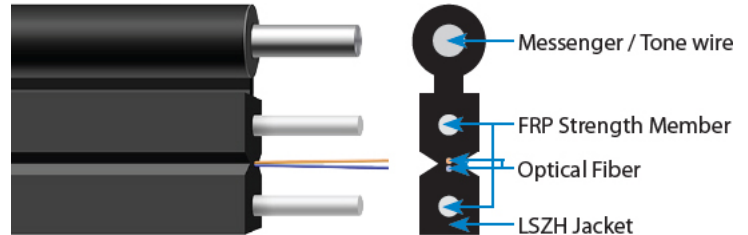
x = Fiber Count, yy = SM (singlemode) or MM (multimode)

Description:

Nanda Technologies's Fiber Optic Drop Cable uses special low- bend-sensitivity fiber B6 (G.657A1), providing greater bandwidth and excellent communication transmission properties. Two parallel strength members (non- metallic FRP), ensures the optical fibers are protected. The low smoke zero halogen (LSZH) flame-retardant jacket allows for safety and environmental protection. The cable is light weight with a flute design which can be easily be stripped and spliced, simplifying installation and maintenance. The messenger enhances the overall tensile strength of the cable.

Features:

- Figure-eight construction for use with standard messenger clamping and support hardware
- FRP strength member
- LSZH outer cable jacket for excellent UV and weather resistance
- Figure-eight tight-buffered fiber optic cables meet all functional requirements



Specification	Technical Parameters	
Fiber Type	G.657A1, Singlemode	
Number of Fibers	1 to 6	
Fiber Core Diameter	245 ±10μm	
Attenuation	1310nm	≤0.36 (dB/km)
	1383nm	≤0.34 (dB/km)
	1550nm	≤0.25 (dB/km)
	1625nm	≤0.23 (dB/km)
Attenuation (after hydrogen aging)	1363nm avg. value	≤1310nm ~ 1625nm max.
Specification	Technical Parameters	
Zero Dispersion Wavelength	1300nm ~ 1324nm	
Zero Dispersion Slope	≤0.092ps / (nm²km)	
Coefficient Mode Dispersion	≤0.2ps / SQRT (km)	
Cable Cut-off Wavelength	λ _{cc} < 1260nm	
Mode Field Parameter	1310nm	
Cladding Diameter	125.0 ±0.5μm	
Cladding Non-circularity	<0.5%	
Core-clad Concentricity	≤0.5μm	
Coating Diameter	245 ±10μm	
Fiber Core Coating Material	UV Hardened Resin	
Cable Diameter	2.1 x 5.6 ±0.1mm	
Cable Diameter (body)	3.4 x 2.0 ±0.1mm	
Strength Member Reinforcement	FRP, 0.5mm diameter	
Jacket	LSZH	
Jacket Shore Hardness	≥55D	
Jacket Fire Performance	Test for vertical flame propagation for a single cable	
Messenger	Phosphate wire, 1.0mm diameter	
Tensile Strength	Long Term 300N	
Working Temperature	-20° ~ 60°C	
Temperature Cycling Induced Attenuation	≤0.05 dB/km	
Bending Specificity (30mm*10 laps)	≤0.05 dB (λ=1550nm)	
Packaging	1500m / Plywood Drum / Cardboard Carton	

Light Armored Cable

NT-ARMLTxxxSM

xxx = Fiber Count 12, 24, 48, 72, 96, 144



Parameter		Specification					
Number of Fibers		12	24	48	72	96	144
Design		G.652D					
Central Strength Member		Material: Fiber Reinforced Plastic (FRP), Diameter: 2.5mm (±0.2mm)					
Additional Sheath	Material:	Material: Low-density Polyethylene (LDPE)					
	Diameter:	-			3.9mm (±0.05mm)		7.2mm (±0.05mm)
Loose Tube	Material	Polybutylene Terephthalate (PBT)					
	Dia: ±0.06mm	2.3					
	Thickness: ±0.03mm	0.35					
	Core# / Tube	12					
Filler Rope	Material	LDPE					
	Color	Black					
	Dia: ±0.03mm	2.3					
	Number	5	4	2	-	-	-
Water Blocking Layer		Water Blocking Tape & Water Blocking Yarn					
Strength Member		Glass Yarn					
Armoring	Material:	Steel Strip					
	Thickness: ±0.03mm	0.20					
Ripcord	Material/Color	Aramid Fiber / Yellow					
Outer Sheath	Material:	Medium-density Polyethylene (MOPE)					
	Thickness: ±0.03mm	1.8					
Cable Diameter (±0.2mm)		12, 24, 48, 72 fibers: 12.5 96 fibers:14.2 144 fibers: 16.4					
Min. Bend Radius	Without Tension	10.0 x Cable Diameter					
	Maximum Tension	15.0 x Cable Diameter					
Temp. Range	Installation	-30 ~ +60°C (-22 ~ 140°F)					
	Transport/Storage	-40 ~ + 70°C (-40 ~ 158°F)					
	Operation	-40 ~ +70°C (-40 ~ 158°F)					

Features:

- Loose tube
- Singlemode
- Fiber counts from 12 to 144
- Smaller, more flexible tubes for easier installation and routing
- On 5,000 meter reels
- PE coated armor offers additional crush resistance and protection from rodent attack

