Loose Tube, All Dry, All Dielectric, Single Jacket Non-Armored Cable

TAIHAN FIBEROPTICS
SPEC No. TFO-OFC-T001C

Standards and Certifications

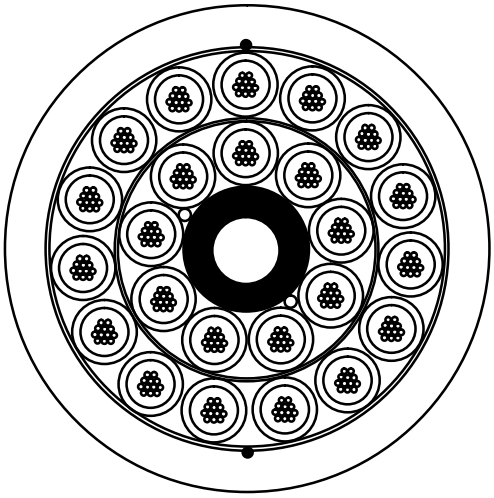
ITU-T G.650. IEC 60793, 60794.
ISO 9001, 14001. OHSAS 18001.
TIA-598-D.

Feature and Benefit

All dry (Gel-free): Easy preparation
Color-coded fibers: Easy and quick identification
Loose tube design: Stable performance and compatibility with all common fiber type
All-dielectric construction

Construction

Fiber: 12 colors coding
Loose tube: PP with Gel-free
Central strength member: Dielectric strength material
Water blocking material : Water swellable yarn and tape
Stripping material: Ripcord
Single jacket non-armored



Cross Section in Case of 288F Cable
P. N. : RHONE™-01-288-D1-012-12-SN-F-N0-N0-A-Z2-2-00

Specification and Design					
Fiber Count	12-72	84-96	108-144	192-216	240-288
Cable Outer Diameter Nom. Inch (mm)	0.41 (10.5)	0.48(12.1)	0.61(15.4)	0.62(15.8)	0.72(18.2)
Cable Weight Nom. lb/kft(kg/km)	52(77)	61(91)	102(152)	90(134)	123(184)
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua				
Max. Fiber per Tube	12				
Number of Tube Position	6	8	12	18	24
Number of Active Tube	1-6	7-8	9-12	16-18	20-24
Tube Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*				
Water Blocking Material	Water Swellable Yarn and Tape				
Central Strength Member	F.R.P. (Fiber Reinforced Plastic)				
Jacket Material	Black color polyethylene				

: No of tube(13-24) shall be with black tracer but black tube(20) with white tracer.

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Handling	
Temperature	Storage : -40°F to +167°F (-40°C to +75°C) Installation : -22°F to +140°F (-30°C to +60°C) Operation : -40°F to +158°F (-40°C to +70°C)
Min. Bend Radius	With Load (Short Term) : 20 X Outer Diameter of Cable With No Load (Long Term) : 10 X Outer Diameter of Cable
Tensile Strength	Installation (Short Term) : 2700N (600lbs) Residual (Long Term) : 800N (180lbs)

Transmission Performance (Single-Mode Fiber-ANYWAVE® B/D/REACH)					
Type of Fiber	B1 (G.652.B)	D1 (G.652.D)	N1 (G.655.C)	N2 (G.655.A(L))	N3 (G.655.A(S))
Mode Filed Diameter (μm)	9.2±0.4 at 1310nm	9.2±0.4 at 1310nm	9.2±0.4 at 1550nm	9.6±0.4 at 1550nm	8.3±0.4 at 1550nm
Wavelengths (nm)	1310/1383/1550	1310/1383/1550	1310/1383/1550	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.35/-/0.25	0.35/0.35/0.25	-/-/0.25	-/-/0.25	-/-/0.25

Transmission Performance (Single-Mode Fiber-ANYWAVE® FLEX A1/A2/B3)			
Type of Fiber	I1 (G.657.A1)	I2 (G.657.A2)	I2 (G.657.B3)
Mode Filed Diameter (μm)	8.9 ± 0.4 at 1310nm	8.6±0.4 at 1310nm	8.6±0.4 at 1310nm
Wavelengths (nm)	1310/1383/1550	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.35/0.35/0.25	0.35/0.35/0.25	0.35/0.35/0.25

Transmission Performance (Multi-Mode Fiber-ANYWAVE® OM1/OM2/OM3/OM4)				
Type of Fiber	OM1	OM2	OM3	OM4
Core Diameter (μm)	62.5	50	50	50
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0

Cable Ordering Information : Ex) RHONE™-01-288-D1-012-12-SN-F-N0-N0-A-Z2-2-00

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① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

™ Cable Application
MOCA™ : Mini Duct, RHONE™ : Duct, TICI™ : Direct Buried, TRASI™ : Ribbon Tube Cable, CANN™ : Micro Duct, ROCK I™ : ADSS Single Jacket, ROCK II™ : ADSS Double Jacket, FIEIT™ : Fig 8

① Select Type of Cable
01 : Multi LT, 02 : Central LT, 03 : Multi Ribbon Tube, 04 : Central Ribbon Tube

② Total Fiber Count
Ex) 072, 096, 144, 288

③ Select Type of Fiber
B1 : G.652.B, D1 : G.652.D, N1 : G.655.C, N2 : G.655.AL, N2 : G.655.AS, M1 : OM1(62.5 μm), M2 : OM2(50 μm), M3 : OM3(50 μm), M4 : OM4(50 μm), I1 : G.657.A1, I2 : G.657.A2, I3 : G.657.B3, C1 : D1 and N1, C2 : D1 and N2, C3 : D1 and N3

④ Select Fiber Placement
002 : 2 F / LT, 004 : 4 F / LT, 006 : 6 F / LT, 008 : 8 F / LT, 012 : 12 F / LT, 024 : 24 F / LT, 072 : 072 F / Ribbon Tube, 144 : 144 F / Ribbon Tube

⑤ Select Performance Option Code
01 : 0.40/-/0.30 dB/km (G.652.B), 02 : 0.35/-/0.25 dB/km (G.652.B)
11 : 0.40/0.40/0.30 dB/km (G.652.D), 12 : 0.35/0.35/0.25 dB/km (G.652.D)
21 : -/-/0.30 dB/km (G.655.C/A(L)/A(S)), 22 : -/-/0.25 dB/km (G.655.C/A(L)/A(S))
31 : 0.40/0.40/0.30 dB/km (G.657.A1/A2/B3), 32 : 0.35/0.35/0.25 dB/km (G.657.A1/A2/B3)
41 : 3.5/1.5 dB/km (OM1/OM2/OM3/OM4), 42 : 3.4/1.0 dB/km (OM1/OM2/OM3/OM4), 43 : 3.0/1.0 dB/km (OM2/OM3/OM4)

⑥ Jacket Layer
SN : Single Jacket Non-Armored, SS : Single Jacket Single-Armored, DN : Double Jacket Non-Armored,
DS : Double Jacket Single-Armored, DD : Double Jacket Double-Armored, TD : Triple Jacket Double-Armored

⑦ Central Strength Member
N : None, F : FRP(Fiber Reinforced Plastic), S : Steel Wire

⑧ Strength Material N0 : None, GY : Glass Yarn, AY : Aramid Yarn, FR : FRP Rod, SR : Steel Wire Rod
⑨ Armoring or Moisture Barrier Material N0 : None, ST : Corrugated Steel Tape, SW : Steel Wire, LA : Laminated Aluminium Tape, C1 : LA and ST, C2 : LA and SW
⑩ Water Blocking Type A : All Dry, S : Semi Dry (Tube With Gel-Filled), F : Fully Gel-Filled
⑪ Jacket Material Z1 : Low Density Polyethylene, Z2 : Medium Density Polyethylene, Z3 : High Density Polyethylene, ZV : Polyvinyl Chloride F0 : Flame Retardant Polyethylene with LSZH, TR : Track Resistant
⑫ Select Length Marking 1 : Markings in Meter, 2 : Markings in Feet
⑬ Define Special Requirements 00 : No Special Requirement, 01 : Non-Metallic and Rodent Protection, 02 : Termite Protection, 03 : Detectable Tracer, 04 : Flexible Tube