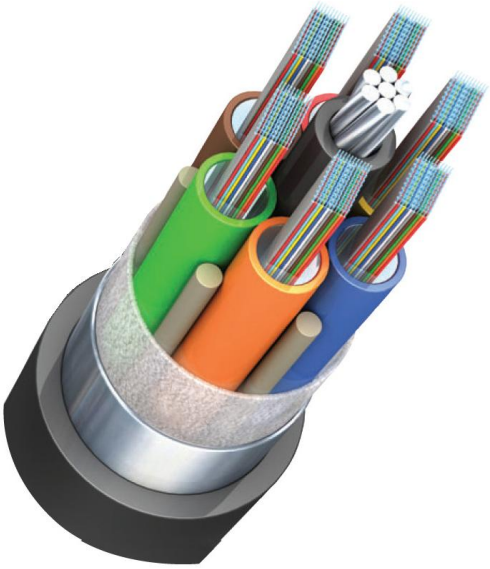
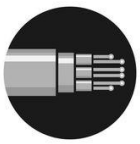
DME PROLINK Fiber Optic Indoor Cable, Armored, MLT / MRT, Single Mode, Anti Rodent, G652D, FR-PVC, Black



25 YEARS SYSTEM WARRANTY

FIBER DME

FTTH



Description

DME PROLINK's Multi Loose tube/ Multi Ribbon Tube cable provides excellent optical transmission and physical performance. Loose tube cable is a design that has high tensile strength and flexibility in a compact cable size. Single mode fiber is manufactured by the vapour axial deposition (VAD) process to produce the highest quality glass with excellent geometry, high strength characteristics, and attenuation that approaches theoretical minimum. The single mode fiber is fully compatible with other commercially available single mode fibers and has the zero dispersion wavelength around 1310nm. The main operating wavelength region of the fiber is around 1285nm and 1625nm. Its optical properties are achieved through a germanium doped silica based core with a pure silica cladding. An acrylate protective coating is applied over glass cladding to provide the necessary maximum fiber lifetime.

DME PROLINK ensure a continuing level of quality in our cable products through several quality control programs including ISO 9001. Also, it ensure product reliability through rigorous qualification testing of each product family. Both initial and periodic qualification testing are performed to assure the cable's performance and durability in the field environments.

Reference:

IEC 60793, IEC 60794, ITU-T G 650, G 652D

Cable Design (4 – 300 Core):

The cable core contains single mode fibers in loose tubes and required number of filler which are stranded (S-Z stranding method) around central strength member with water blocking yarn or tape. The interstices in the loose tubes are filled with jelly compound. And then wrapping tape, glass yarn and Flame Retardant PVC sheath apply over the cable core.

Cable Design (400 – 1000 Core):

The cable core contains consist of parallel arranged 12-primary coated fiber (ribbon fiber) in loose tubes and required number of filler which are stranded (S-Z stranding method) around central strength member with water blocking yarn or tape. The interstices in the loose tubes are filled with jelly compound. And then wrapping tape, corrugated steel tape and flame retardant PVC sheath apply over the cable core

DME PROLINK Fiber Optic Indoor Cable, Armored, MLT / MRT, Single Mode, Anti Rodent, G652D, FR-PVC, Black

Optical Fiber G.652D Specification

Category	Description	Values
Optical Specifications	Attenuation @1310 nm	≤0.40 dB/km
	Attenuation @1550 nm	≤0.25 dB/km
	Chromatic Dispersion at 1285~1330nm	≤3.5 ps/nm·km
	Chromatic Dispersion at 1550nm	≤18 ps/nm·km
	Zero Dispersion Wavelength	1300~1324 nm
	Zero Dispersion Slope	≤0.093 ps/nm²·km
	Cable Cutoff Wavelength (λcc)	≤1100 to 1330 nm
	Mode Field Diameter @1310 nm	9.2 ± 0.5μm
Dimensional Specifications	Cladding Diameter	125 ±1μm
	Cladding non circularity	≤1.0%
	Coating diameter	245 ± 5μm
	Mode Field concentricity error	≤0.8 μm
Mechanical Specifications	Fiber Proof Test Level	≥ 1% x 1 Sec

Factory Tests

Cable Bend Test	
Test standard	IEC 60794-1-2 E11
Bending Radius	20 x diameter of cable
Bending Turns	1 Turn
Cycles	5 cycles
Test results	Additional attenuation: ≤ 0.1 dB
	No damage to outer jacket and inner elements

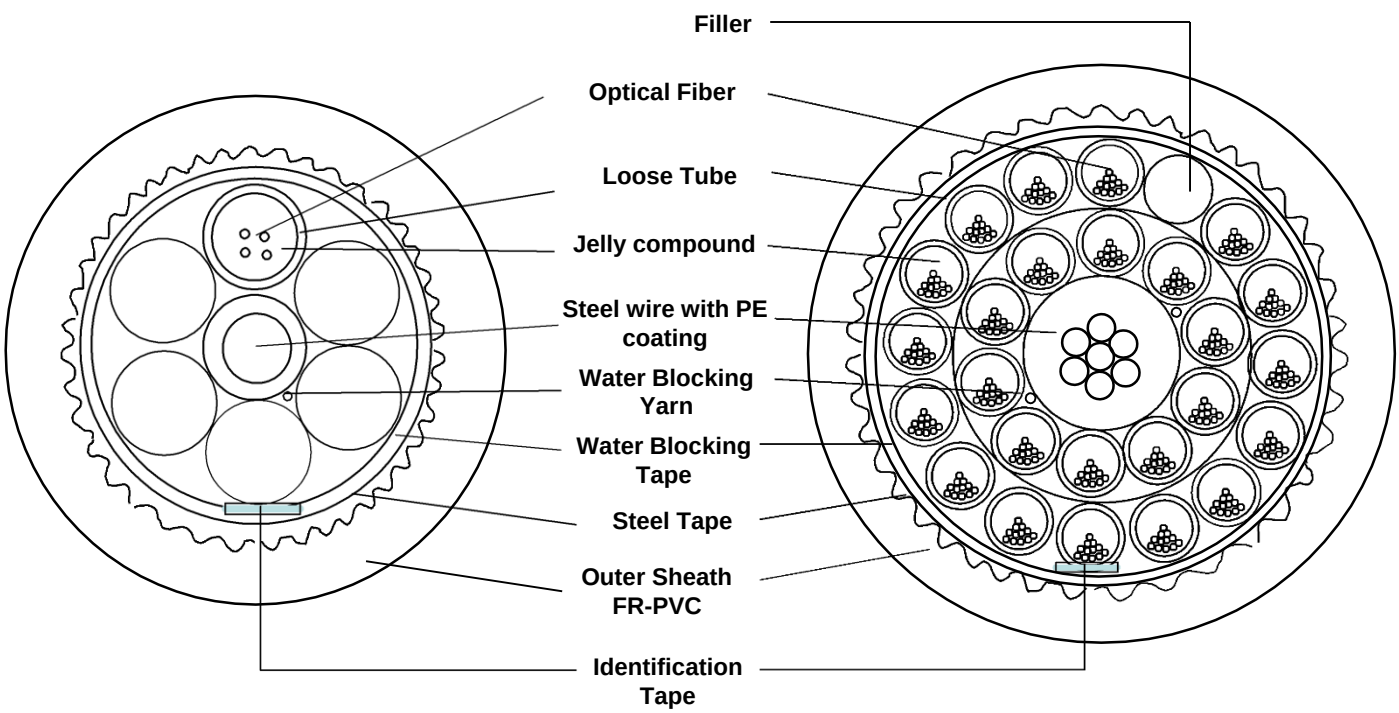
Crush Resistance Test	
Test standard	IEC 60794-1-2 E3
Applied Load	2000 N/100mm plate
Duration time	10 sec
Test results	Additional attenuation: ≤ 0.1 dB
	No damage to outer jacket and inner elements

Impact Resistance Test	
Test standard	IEC 60794-1-2 E4
Test Load	1Kg x 1m
Test results	Additional attenuation: ≤ 0.1 dB
	No damage to outer jacket and inner elements

DME PROLINK Fiber Optic Indoor Cable, Armored, MLT / MRT, Single Mode, Anti Rodent, G652D, FR-PVC, Black

Construction of Optical fiber cable (Loose Fiber Core)

Description		Construction									
Total Fiber Core		4	6	8	12	16	24	48	72	100	200	300
Number of Loose Tube		1	1	2	2	3	4	4	6	9	17	25
Number of Fillers		5	5	4	4	3	2	2	0	1	1	1
Number of Fiber per Tube		4	6	6,2	6	6,4	6	12	12	12,4	12,8	12
Tube Material		PBT (Polybutylene Terephthalate)										
Filler Material		PE String										
Central Strength Member		Single or stranded steel wire with PE coating										
Filling Material		Water blocking yarn or Tape										
Wrapping Material		Water Blocking Tape										
Armoring		Corrugated Steel Tape										
Outer Sheath Material		Nom. 2.0mm Flame Retardant PVC										
Cable	Nom. Diameter (mm)	12.0						12.7	12.7	15.6	17.5	20.4
	Nom. Weight (kg/km)	175						194	196	288	355	445
Max. Tensile Strength		270Kg during Installation / 100Kg after Installation										
Operating Temperature Range		- 30 to 70℃										



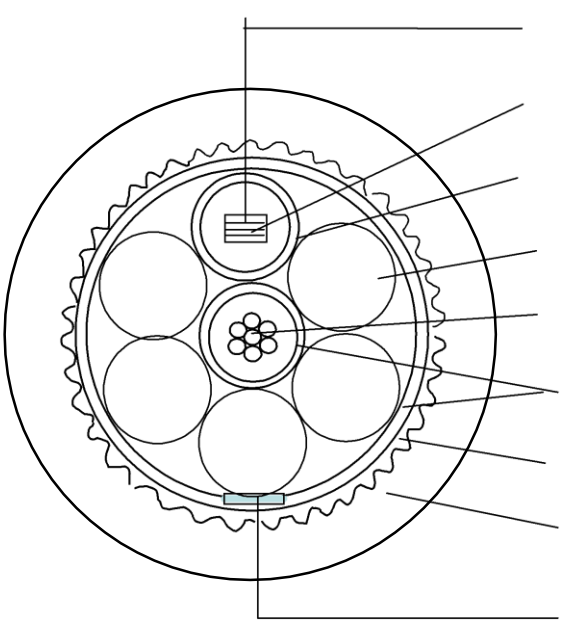
4 Core (MLT)

300 Core (MLT)

DME PROLINK Fiber Optic Indoor Cable, Armored, MLT / MRT, Single Mode, Anti Rodent, G652D, FR-PVC, Black

Construction of Optical fiber cable (Ribbon Fiber Core)

Description		Construction								
Total Fiber Core		48	72	100	200	300	400	600	800	1000
Number of Loose Tube		1	1	2	3	5	6	9	6	7
Number of Ribbon		4	6	9	17	25	34	50	67	84
Consist of Ribbon	12 Fiber Ribbon	3	5	8	16	24	33	49	66	83
	Last Ribbon	1 (12 Fiber)	1 (12 Fiber)	1 (4 + 8 Spare)	1 (8 + 4 Spare)	1 (12 Fiber)	1 (4 + 8 Spare)	1 (12 Fiber)	1 (8 + 4 Spare)	1 (4 + 8 Spare)
Number of Fiber per Tube		48	72	72,36	72,60	72,12	72,48	72,24	144,84	144
Tube Material		Plastic Material (TPEE etc.)								
Filler Material		PE String								
Central Strength Member		Single or stranded steel wires with PE coating								
Filling Material		Water blocking yarns or Tape								
Wrapping Material		Water Blocking Tape								
Armoring		Corrugated Steel Tape for Anti Rodent								
Outer Sheath Material		Nom. 2.0mm Flame Retardant PVC								
Cable	Nom. Diameter (mm)	24.8						30.6	31.0	34.0
	Nom. Weight (kg/km)	590						885	924	1125
Max. Tensile Strength		270Kg during Installation / 100Kg after Installation								
Operating Temperature Range		- 30 to 70℃								



48 Core (MRT)

Ribbon Fiber (12core)

Optical Fiber

Loose Tube

Jelly compound

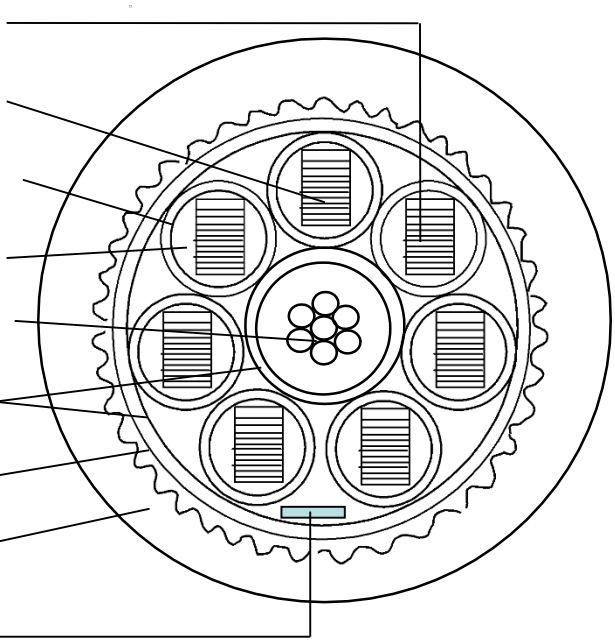
Steel wire with PE coating

Water Blocking Tape or Yarn

Steel Tape

Outer Sheath FR-PVC

Identification Tape

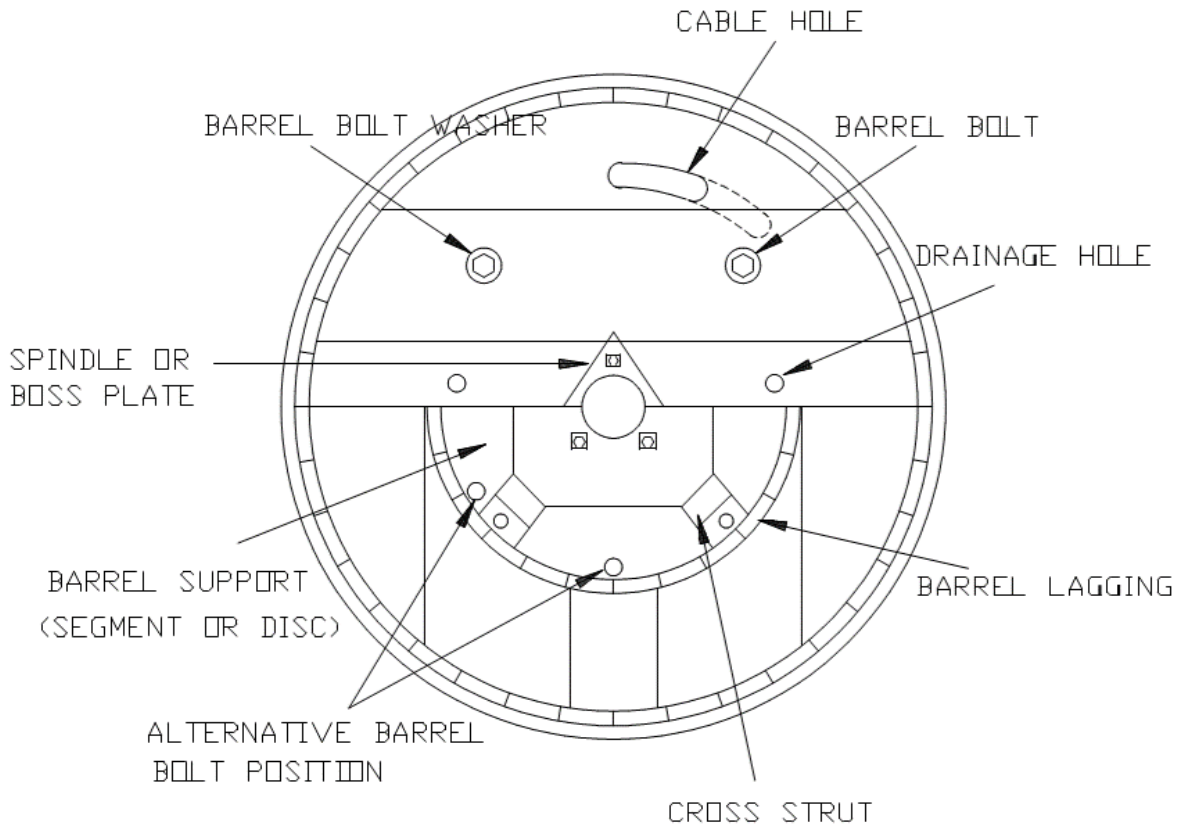


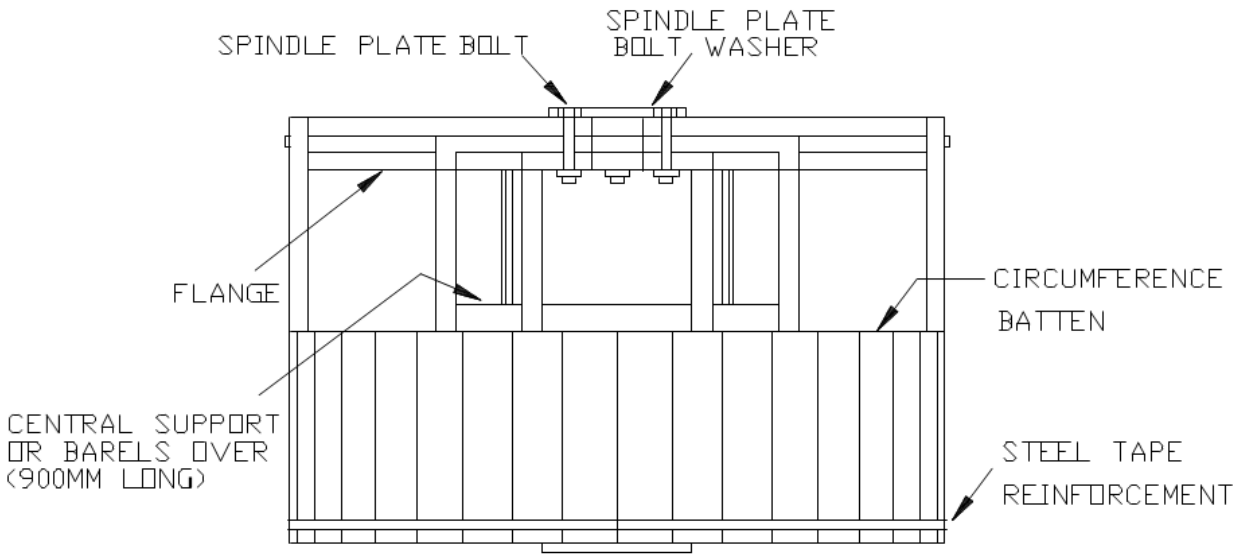
1000 Core (MRT)

DME PROLINK Fiber Optic Indoor Cable, Armored, MLT / MRT, Single Mode, Anti Rodent, G652D, FR-PVC, Black

Drum Packing and Marking

DME PROLINK's each length of cable will have both ends effective sealed. Each cable drum will be marked to indicate the direction of rotating for reeling of the cable. On both side of the cable drum, required marking will be printed. The minimum barrel diameter of the drums will be 40 times the nominal diameter of the cable. Required letters will be distinctly marked on a weather proof material on both outer sides of the drum flange. The marking plates will be made of a non-corrodible material.





DME PROLINK Fiber Optic Indoor Cable, Armored, MLT / MRT, Single Mode, Anti Rodent, G652D, FR-PVC, Black

Color coding of Optical Fiber in Multi Loose Tube / Multi Ribbon Tube

No. of Fiber Per Tube	1	2	3	4	5	6	7	8	9	10	11	12
6 Cores	Blue	Orange	Green	Red	Yellow	Violet						
12 Cores	Blue	Orange	Green	Red	Yellow	Violet	Brown	Black	White	Slate	Aqua	Pink
12 Core (R) *	Blue	Orange	Green	Red	Yellow	Violet	Brown	Black	White	Slate	Aqua	Pink

(R)* : Ribbon fiber (12core)

Part Number

D	1	1	1	x	-	n	t	m	j	p	s	c

x	Pin assigned by ECS
0-9	Inventory Management Index

n	Number of Fiber Core
04 - 1000	4 – 1000 Fiber Core

t	Type
LF	Loose Fiber
RF	Ribbon Fiber

m	Mode
6	OS1
7	OS2

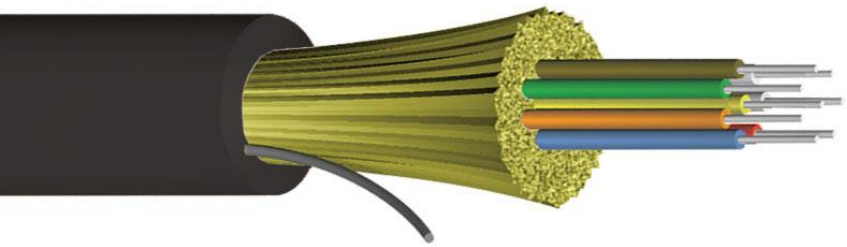
j	Outer Jacket Material
PV	Polyvinyl Chloride
PE	Polyethylene
FRPV	Flame Retardant Polyvinyl Chloride

p	Physical Construction
ST	Steel Tape Armor

s	Specification
2D	G.652D

c	Color
BK	Black

DME PROLINK Fiber Optic Cable
Indoor/Outdoor Distribution Tight Buffered



Description

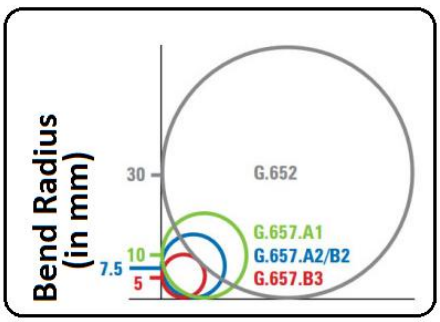
DME PROLINK's Tight-Buffered Distribution cable is designed specifically for indoor and outdoor distribution applications requiring low to higher core-counts. The Single-mode FO cable comes in either G.652D or G.657A1/A2 specifications. The multimode FO cables come in OM3 and OM4 specifications. Cable with G.657A1/A2 specifications provides the bend-insensitivity and robustness essential to a successful FTTH deployment

Circular construction and a Kevlar yarn strength member make this cable ideal for mainly indoor deployments where riser and/or containment spaces are limited. Also, this cable can be used for partial outdoor application laid within Outdoor rated ducts. Indoor/Outdoor Tight Buffered cables are specified for campus network cabling between buildings where inter-building lengths are short enough that the installer can recognize savings from the lower costs of terminating tight buffered cables.

The Fiber used in *DME PROLINK*'s Fiber Optic cables, are made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

Features & Benefits

- Available as G.652D, G.657A1/A2,
- Outer jacket is moisture-resistant, fungus-resistant and UV resistant
- Approved by Service Providers
- LSZH and OFNR Rated
- Predictable lifetime of 30 years
- Complies with Telcordia GR-20 core
- Color code scheme: According to EIA/TIA 598



DME PROLINK Fiber Optic Cable Indoor/Outdoor Distribution Tight Buffered

The Fiber within FO cable are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G.651: Characteristics of multi-mode optical fiber and cable
- ITU-T G652: Characteristics of a Single-mode optical fiber and cable
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
- ITU-T G.657: Characteristics of a bending-loss insensitive single-mode optical fiber

Optical Fiber G.652D Specification

Category	Description	Values	
		Before Cabling	After Cabling
Optical Specifications	Attenuation @1310 nm	≤0.34 dB/km	≤0.40 dB/km
	Attenuation @1550 nm	≤0.20 dB/km	≤0.30 dB/km
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Macro bending Loss (100 turns; Φ60 mm) @1550 nm (100 turns; Φ60 mm) @1625 nm	≤ 0.05 dB ≤ 0.10 dB	
	Mode Field Diameter @1310 nm	8.6 ± 0.4μm	
	Mode Field Diameter @1550 nm	9.8 ± 0.5μm	
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Primary Buffer Coating diameter	245 ± 7μm	
	Tight Buffer Coating diameter	0.9mm ± 5μm	
	Cladding non circularity	≤1.0%	
	Cladding / coating concentricity error	≤12μm	
	Core/clad concentricity error	≤0.6μm	
Mechanical Specifications	Proof stress	≥0.69Gp	
Environmental Specification	Operation temperature range	-20℃ to + 60℃	
	Installation temperature range	-10℃ to + 60℃	
	Transport and storage temperature range	-20℃ to + 60℃	

Optical Fiber G.657A1 Specification

Category	Description	Values	
		Before Cabling	After Cabling
Optical Specifications	Attenuation @1310 nm	≤0.34 dB/km	≤0.40 dB/km
	Attenuation @1550 nm	≤0.20 dB/km	≤0.30 dB/km
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	Zero Dispersion Wavelength	1300 – 1324 nm	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Macro bending Loss (10 turns; Φ30 mm) @1550 nm (10 turns; Φ30 mm) @1625 nm (1 turns; Φ20 mm) @1550 nm (1 turns; Φ20 mm) @1625 nm	 ≤ 0.25 dB ≤ 1.0 dB ≤ 0.75 dB ≤ 1.5 dB	
	Mode Field Diameter @1310 nm	9.0 ± 0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	245 ± 7μm	
	Coating non circularity	≤ 6%	
	Cladding / coating concentricity error	≤ 6μm	
	Core/clad concentricity error	≤0.6μm	
Mechanical Specifications	Proof stress	≥0.69Gp	
Environmental Specification	Operation temperature range	-20℃ to + 60℃	
	Installation temperature range	-10℃ to + 60℃	
	Transport and storage temperature range	-20℃ to + 60℃	

Optical Fiber G.657A2 Specification

Category	Description	Values	
		Before Cabling	After Cabling
Optical Specifications	Attenuation @1310 nm	≤0.34 dB/km	≤0.40 dB/km
	Attenuation @1550 nm	≤0.20 dB/km	≤0.30 dB/km
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	Zero Dispersion Wavelength	1300 – 1324 nm	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	

Optical Fiber G.657A2 Specification

Category	Description	Values	
		Before Cabling	After Cabling
Optical Specifications	Macro bending Loss (10 turns; Φ30 mm) @1550 nm (10 turns; Φ30 mm) @1625 nm (1 turns; Φ20 mm) @1550 nm (1 turns; Φ20 mm) @1625 nm 1 turns; Φ15 mm) @1550 nm (1 turns; Φ15 mm) @1625 nm	 ≤ 0.03 dB ≤ 0.1 dB ≤ 0.1 dB ≤ 0.2 dB ≤ 0.5 dB ≤ 1.0 dB	
	Mode Field Diameter @1310 nm	8.6 ± 0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	245 ± 7μm	
	Coating non circularity	≤ 6%	
	Cladding / coating concentricity error	≤ 6μm	
	Core/clad concentricity error	≤0.6μm	
Mechanical Specifications	Proof stress	≥0.69Gp	
Environmental Specification	Operation temperature range	-20℃ to + 60℃	
	Installation temperature range	-10℃ to + 60℃	
	Transport and storage temperature range	-20℃ to + 60℃	

DME PROLINK Fiber Optic Cable Indoor/Outdoor Distribution Tight Buffered

Physical / Mechanical Characteristics of Fiber Optic Cable

Physical	**Fiber count**	**6**	8	12	24
	Tight buffer fiber diameter	0.9mm ± 50µm			
	Strength member	Aramid yarns			
	Cable OD	5 mm ± 5%	5.5 mm ± 5%	6.0 mm ± 5%	8.0 mm±5%
	Cable weight	20 kg/km ± 15%	25 kg/km ± 15%	30 kg/km ± 15%	42 kg/km ± 15%
Mechanical	Max. tensile load	200N			
	Crush resistance	500N/10cm			
	Minimal installation bending radius	20 x OD			
	Minimal operation bending radius	10 x OD			
Environmental	Operation temperature range	-20°C to + 60°C			
	Installation temperature range	-10°C to + 50°C			
	Transport and storage temperature range	-20°C to + 60°C			

Note: The Physical, Mechanical and Environmental characteristics of FO cable mentioned here is the minimum. It can be customized based on client requirement where like Crush Resistance and Tensile load can be improved if required and hence accordingly the dimension of the cable will also change.

Routine Factory tests of single-mode Optical fiber

Parameters	Test Standards
Mode field diameter	IEC 60793-1-45.
Mode field Core/clad concentricity	IEC 60793-1-20
Cladding diameter	IEC 60793-1-20
Cladding non-circularity	IEC 60793-1-20
Attenuation coefficient	IEC 60793-1-40
Chromatic dispersion	IEC 60793-1-42
Cable cut-off wavelength	IEC 60793-1-44

Routine Factory tests of Multimode Optical fiber

Parameters	Test Standards
Cladding diameter	IEC 60793-1-20
Cladding non-circularity	IEC 60793-1-20
Attenuation coefficient	IEC 60793-1-40

Factory Test List for Fiber Optic Cable*

Tension Loading Test

Test Standard	IEC 60794-1-2 E1
Sample Length	No less than 50 meters
Load	Max. tension load
Duration time	1 minute
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

Crush / Compression Test

Test Standard	IEC 60794-1-2 E3
Load	Crush load
Duration time	1 minute
Test number	1
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

Impact Resistance Test

Test Standard	IEC 60794-1-2 E4
Impact energy	1J
Radius	12.5mm
Impact Points	3
Impact Number	1
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

Bend Test

Test Standard	IEC 60794-1-2 E11A
Bending Radius	20 x diameter of cable
Turn number	4
Number of cycles	1
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

DME PROLINK Fiber Optic Cable Indoor/Outdoor Distribution Tight Buffered

Part Number

D	1	1	2	x	-	n	m	j	p	s	c

x	Pin assigned by ECS
0-9	Inventory Management Index

n	Number of Fibers
02 - 144	02 - 144 Fibers

m	Mode
6	OS1
7	OS2

j	Sheath
LS	LSZH

p	Physical Construction
JF	Jelly-Filled
ST	Steel-Tape Armored
RP	Rodent-Proof
FR	Fire-Retardant
0	Not Applicable

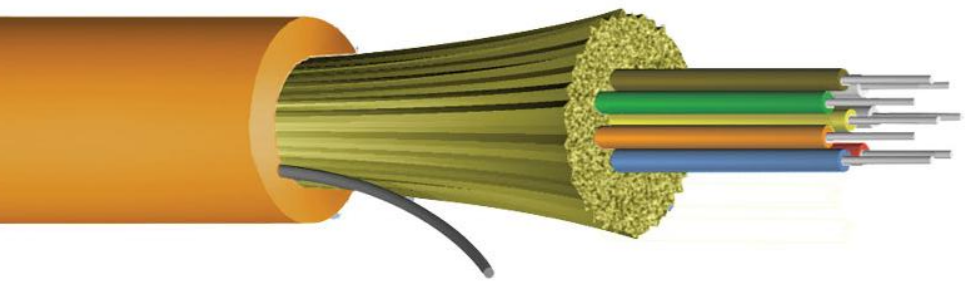
s	Specification
2D	G.652D
7A1	G.657A1
7A2	G.657A2
7B2	G.657B2
0	Not Applicable for MM

c	Sheath Color
BK	Black

Examples

D112x-127LS02DBK	Fiber Optic Indoor/Outdoor Cable, 12 Core, Distribution TB, Single-mode OS2, LSZH, G.652D, Black
D112x-247LS02DBK	Fiber Optic Indoor/Outdoor Cable, 24 Core, Distribution TB, Single-mode OS2, LSZH, G.652D, Black
D112x-127LS0A1BK	Fiber Optic Indoor/Outdoor Cable, 12 Core, Distribution TB, Single-mode OS2, LSZH, G.657A1, Black
D112x-247LS0A1BK	Fiber Optic Indoor/Outdoor Cable, 24 Core, Distribution TB, Single-mode OS2, LSZH, G.657A1, Black

DME PROLINK Fiber Optic Cable Indoor Distribution Tight Buffered



Description

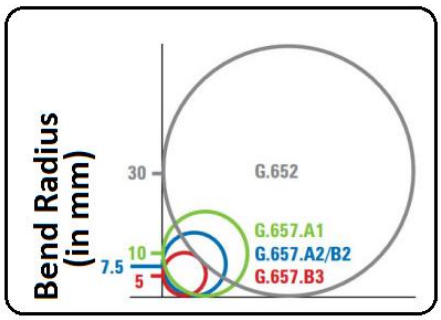
DME PROLINK's Tight-Buffered Distribution cable is designed specifically for indoor distribution applications requiring low to higher core-counts. The Single-mode FO cable comes in G.652D, G.657A1/A2 and G.657B2 specifications. It provides the bend-insensitivity and robustness essential to a successful FTTH deployment

Circular construction and a Kevlar yarn strength member make this cable ideal for indoor deployments where riser and/or containment spaces are limited.

The Fiber used in *DME PROLINK*'s Fiber Optic cables, are made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

Features & Benefits

- Available as G.652D, G.657A1/A2 and G.657B2
- Approved by Service Providers
- LSZH and OFNR Rated
- Predictable lifetime of 30 years
- Complies with Telcordia GR-20 core
- Color code scheme: According to EIA/TIA 598



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- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G652: Characteristics of a Single-mode optical fiber and cable
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
- ITU-T G.657: Characteristics of a bending-loss insensitive single-mode optical fiber

DME PROLINK Fiber Optic Cable Indoor Distribution Tight Buffered

Optical Fiber G.652D Specification

Category	Description	Values	
		Before Cabling	After Cabling
Optical Specifications	Attenuation @1310 nm	≤0.34 dB/km	≤0.40 dB/km
	Attenuation @1550 nm	≤0.20 dB/km	≤0.30 dB/km
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Macro bending Loss (100 turns; Φ60 mm) @1550 nm (100 turns; Φ60 mm) @1625 nm	≤ 0.05 dB ≤ 0.10 dB	
	Mode Field Diameter @1310 nm	8.6 ± 0.4μm	
	Mode Field Diameter @1550 nm	9.8 ± 0.5μm	
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Primary Buffer Coating diameter	245 ± 7μm	
	Tight Buffer Coating diameter	0.9mm ± 5μm	
	Cladding non circularity	≤1.0%	
	Cladding / coating concentricity error	≤12μm	
	Core/clad concentricity error	≤0.6μm	
Mechanical Specifications	Proof stress	≥0.69Gp	
Environmental Specification	Operation temperature range	-20℃ to + 60℃	
	Installation temperature range	-10℃ to + 60℃	
	Transport and storage temperature range	-20℃ to + 60℃	

Optical Fiber G.657A1 Specification

Category	Description	Values	
		Before Cabling	After Cabling
Optical Specifications	Attenuation @1310 nm	≤0.34 dB/km	≤0.40 dB/km
	Attenuation @1550 nm	≤0.20 dB/km	≤0.30 dB/km
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	Zero Dispersion Wavelength	1300 – 1324 nm	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Macro bending Loss (10 turns; Φ30 mm) @1550 nm (10 turns; Φ30 mm) @1625 nm (1 turns; Φ20 mm) @1550 nm (1 turns; Φ20 mm) @1625 nm	≤ 0.25 dB ≤ 1.0 dB ≤ 0.75 dB ≤ 1.5 dB	
	Mode Field Diameter @1310 nm	9.0 ± 0.4μm	

Optical Fiber G.657A1 Specification

Category	Description	Values	
		Before Cabling	After Cabling
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	245 ± 7μm	
	Coating non circularity	≤ 6%	
	Cladding / coating concentricity error	≤ 6μm	
	Core/clad concentricity error	≤0.6μm	
Mechanical Specifications	Proof stress	≥0.69Gp	
Environmental Specification	Operation temperature range	-20℃ to + 60℃	
	Installation temperature range	-10℃ to + 60℃	
	Transport and storage temperature range	-20℃ to + 60℃	

Optical Fiber G.657A2 Specification

Category	Description	Values	
		Before Cabling	After Cabling
Optical Specifications	Attenuation @1310 nm	≤0.34 dB/km	≤0.40 dB/km
	Attenuation @1550 nm	≤0.20 dB/km	≤0.30 dB/km
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	Zero Dispersion Wavelength	1300 – 1324 nm	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Macro bending Loss (10 turns; Φ30 mm) @1550 nm (10 turns; Φ30 mm) @1625 nm (1 turns; Φ20 mm) @1550 nm (1 turns; Φ20 mm) @1625 nm 1 turns; Φ15 mm) @1550 nm (1 turns; Φ15 mm) @1625 nm	 ≤ 0.03 dB ≤ 0.1 dB ≤ 0.1 dB ≤ 0.2 dB ≤ 0.5 dB ≤ 1.0 dB	
	Mode Field Diameter @1310 nm	8.6 ± 0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	245 ± 7μm	
	Coating non circularity	≤ 6%	
	Cladding / coating concentricity error	≤ 6μm	
	Core/clad concentricity error	≤0.6μm	

Optical Fiber G.657A2 Specification

Category	Description	Values	
		Before Cabling	After Cabling
Mechanical Specifications	Proof stress	≥0.69Gp	
Environmental Specification	Operation temperature range	-20℃ to + 60℃	
	Installation temperature range	-10℃ to + 60℃	
	Transport and storage temperature range	-20℃ to + 60℃	

Optical Fiber G.657B2 Specification

Category	Description	Values	
		Before Cabling	After Cabling
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km	≤0.40 dB/km
	Attenuation @1550 nm	≤0.21 dB/km	≤0.30 dB/km
	Zero Dispersion Slope	≤0.11 ps/nm²·km	
	Zero Dispersion Wavelength	1250 – 1350 nm	
	Dispersion coefficient	@1288~1339nm ≤ 3.5ps/nm·km @1271~1360nm ≤ 5.3ps/nm·km @1550nm ≤ 18ps/nm·km @1625nm ≤ 22ps/nm·km	
	Macro bending Loss (10 turns; Φ30 mm) @1550 nm (10 turns; Φ30 mm) @1625 nm (1 turns; Φ20 mm) @1550 nm (1 turns; Φ20 mm) @1625 nm 1 turns; Φ15 mm) @1550 nm (1 turns; Φ15 mm) @1625 nm	≤ 0.03 dB ≤ 0.1 dB ≤ 0.1 dB ≤ 0.2 dB ≤ 0.5 dB ≤ 1.0 dB	
	Mode Field Diameter @1310 nm	8.6~9.5 ± 0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±0.7μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	245 ± 10μm	
	Coating non circularity	≤ 6%	
	Cladding / coating concentricity error	≤ 6μm	
	Core/clad concentricity error	≤0.5μm	
Mechanical Specifications	Proof stress	≥1.05%	
Environmental Specification	Operation temperature range	-20℃ to + 60℃	
	Installation temperature range	-10℃ to + 60℃	
	Transport and storage temperature range	-20℃ to + 60℃	

DME PROLINK Fiber Optic Cable Indoor Distribution Tight Buffered

Physical / Mechanical Characteristics of Fiber Optic Cable

Physical	**Fiber count**	**16**	**24**
	Tight buffer fiber diameter	0.9mm ± 50μm	
	Strength member	Aramid yarns	
	Cable OD	7.0 mm ± 5%	8.0 mm±5%
	Cable weight	32 kg/km ± 15%	42 kg/km ± 15%
Mechanical	Max. tensile load	400N	
	Crush resistance	500N/10cm	
	Minimal installation bending radius	20 x OD	
	Minimal operation bending radius	10 x OD	

Routine Factory tests of single-mode fiber

Parameters	Test Standards
Mode field diameter	IEC 60793-1-45.
Mode field Core/clad concentricity	IEC 60793-1-20
Cladding diameter	IEC 60793-1-20
Cladding non-circularity	IEC 60793-1-20
Attenuation coefficient	IEC 60793-1-40
Chromatic dispersion	IEC 60793-1-42
Cable cut-off wavelength	IEC 60793-1-44

Factory Test List for Fiber Optic Cable*

Tension Loading Test

Test Standard	IEC 60794-1-2 E1
Sample Length	No less than 50 meters
Load	Max. tension load
Duration time	1 minute
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

Factory Test List for Fiber Optic Cable*

Crush / Compression Test

Test Standard	IEC 60794-1-2 E3
Load	Crush load
Duration time	1 minute
Test number	1
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

Impact Resistance Test

Test Standard	IEC 60794-1-2 E4
Impact energy	1J
Radius	12.5mm
Impact Points	3
Impact Number	1
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

Bend Test

Test Standard	IEC 60794-1-2 E11A
Bending Radius	20 x diameter of cable
Turn number	4
Number of cycles	1
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

DME PROLINK Fiber Optic Cable Indoor Distribution Tight Buffered

Part Number

D	1	1	2	x	-	n	m	j	p	s	c

x	Pin assigned by ECS
0-9	Inventory Management Index

n	Number of Fibers
02 - 144	02 - 144 Fibers

m	Mode
6	OS1
7	OS2

j	Sheath
LS	LSZH

p	Physical Construction
JF	Jelly-Filled
ST	Steel-Tape Armored
RP	Rodent-Proof
FR	Fire-Retardant
0	Not Applicable

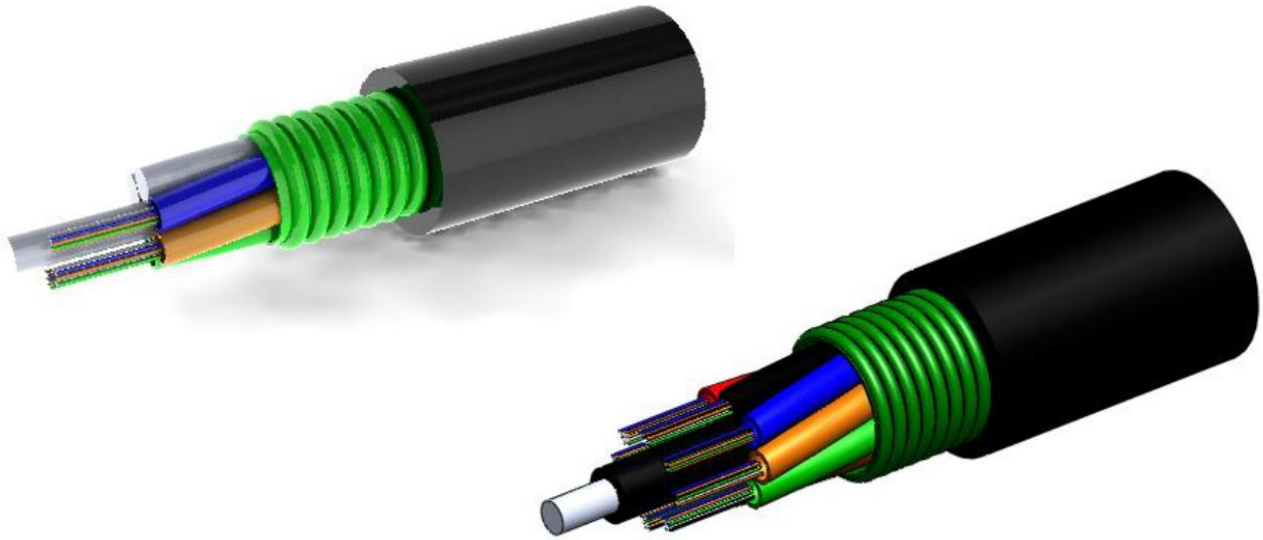
s	Specification
2D	G.652D
7A1	G.657A1
7A2	G.657A2
7B	G.657B2
0	Not Applicable for MM

c	Sheath Color
YW	Yellow

Examples

D112x-087LS07BYW	Fiber Optic Indoor Cable, 8 Core, Distribution TB, Single-mode OS2, LSZH, G.657B, Yellow
D1129-127LS02DYW	Fiber Optic Indoor Cable, 12 Core, Distribution TB, Single-mode OS2, LSZH, G.652D, Yellow
D1129-127LS07BYW	Fiber Optic Indoor Cable, 12 Core, Distribution TB, Single-mode OS2, LSZH, G.657B, Yellow
D1129-167LS07BYW	Fiber Optic Indoor Cable, 16 Core, Distribution TB, Single-mode OS2, LSZH, G.657B, Yellow
D1129-247LS02DYW	Fiber Optic Indoor Cable, 24 Core, Distribution TB, Single-mode OS2, LSZH, G.652D, Yellow
D1129-247LS07BYW	Fiber Optic Indoor Cable, 24 Core, Distribution TB, Single-mode OS2, LSZH, G.657B, Yellow

DME PROLINK Duct Fiber Optic Outdoor Armored Cable, MLT, OS2, G.657A1, PE



Description

The Fiber used in *DME PROLINK*'s Fiber Optic cable, is made of high pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. *DME PROLINK* cable possesses high tensile strength and flexibility in compact cable sizes. At the same time, it provides excellent optical transmission and physical performance. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001. Initial and periodic product qualification tests for performance and durability are performed rigorously to ensure product reliability.

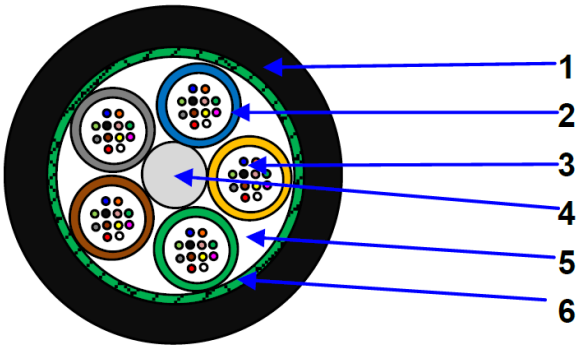
Technical Characteristics

- The unique extruding technology provides the fibers in the tube with good flexibility and bending endurance
- The unique fiber excess length control method provides the cable with excellent mechanical and environmental properties.
- Multiple water blocking material filling provides dual water blocking function

The Fiber optic cable are designed, Manufactured and tested according to below standards:

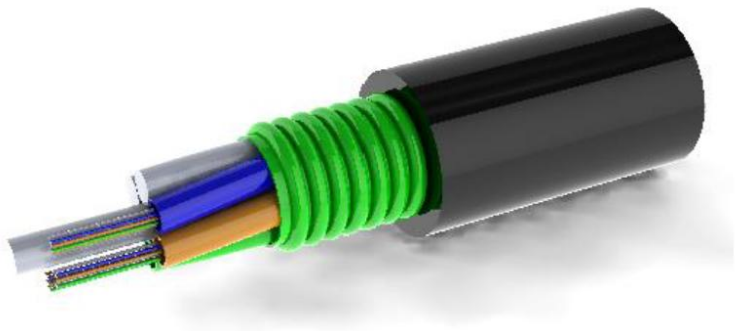
- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-3-10: Optical fiber cables – Part 3-10: Outdoor cables – family specification for Duct and directly buried optical telecommunication cables
- ITU-T G.650: Definition and test methods for the relevant parameters of Single mode Fibers.
- ITU-T G657: Characteristics of a bending-loss insensitive Single-mode optical fiber
- EIA/TIA 598: Color code of Fiber optic cables

DME PROLINK Duct Fiber Optic Outdoor Armored Cable, MLT, OS2, G.657A1, PE



Construction

1. Outer sheath (PE Black)
2. Loose Tube
3. Fiber and Jelly
4. Central Strength Member (Coated Steel Wire)
5. Cable Jelly
6. Armored Tape (Steel Tape)



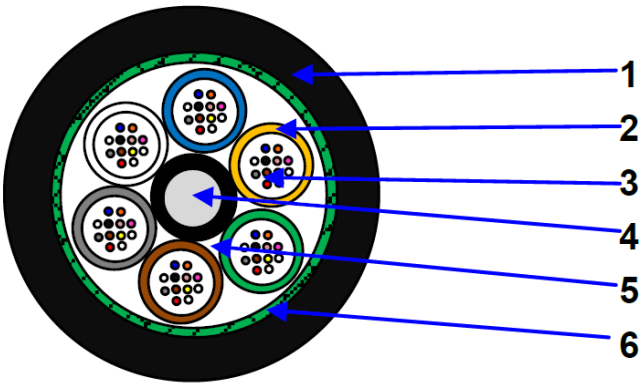
Dimension and Properties

Fiber Count (G.657A1)	4	12	24	36	48	60
No. of Loose Tube / Filler	1/ 4	2/3	4/1	3/2	4/1	5/0
No. of Fiber per Tube	4	6		12		
Cable Outer Dia	9.0mm ± 5%			9.9mm ± 5%		
Cable weight	95kg/km ± 15%			110kg/km ± 15%		
Operating Temperature Range	-40°C to +70°C					
Installation Temperature Range	-10°C to +60°C					
Transport and Storage Temperature Range	-40°C to +70°C					
Max. Tensile Load	1500N					
Crush Resistance	1000 N/10cm					
Minimal Installation bending radius	20 x OD					
Minimal Operating bending radius	10 x OD					

Color code scheme: According to EIA/TIA 598

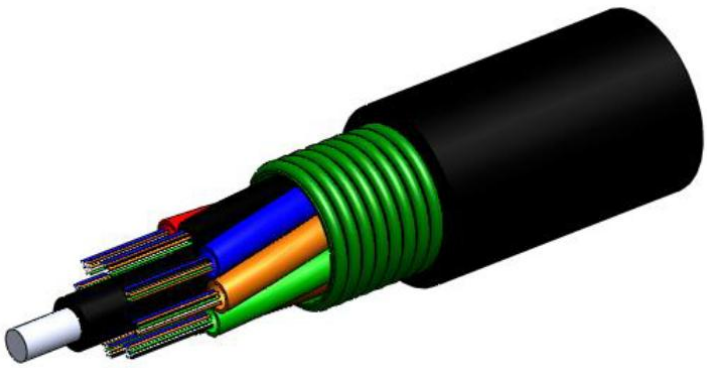
Fiber color	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
Tube color	Blue	Orange	Green	Brown	Gray							

DME PROLINK Duct Fiber Optic Outdoor Armored Cable, MLT, OS2, G.657A1, PE



Construction

1. Outer sheath (PE Black)
2. Loose Tube
3. Fiber and Jelly
4. Central Strength Member (Coated Steel Wire)
5. Cable Jelly
6. Armored Tape (Steel Tape)



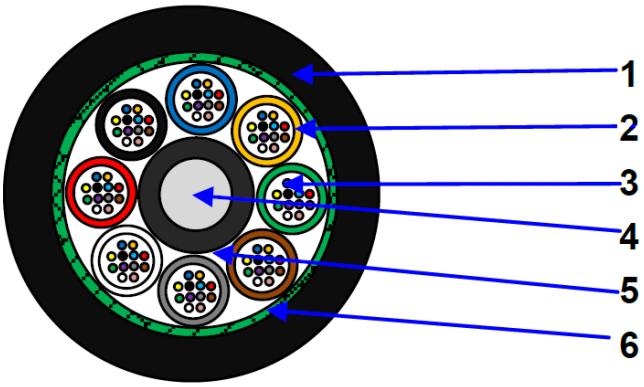
Dimension and Properties

Fiber Count	72 G.657A1
No. of Loose Tube / Filler	6/ 0
No. of Fiber per Tube	12
Cable Outer Dia	10.6mm ± 5%
Cable weight	121kg/km ± 15%
Operating Temperature Range	-40°C to +70°C
Installation Temperature Range	-10°C to +60°C
Transport and Storage Temperature Range	-40°C to +70°C
Max. Tensile Load	1500N
Crush Resistance	1000 N/10cm
Minimal Installation bending radius	20 x OD
Minimal Operating bending radius	10 x OD

Color code scheme: According to EIA/TIA 598

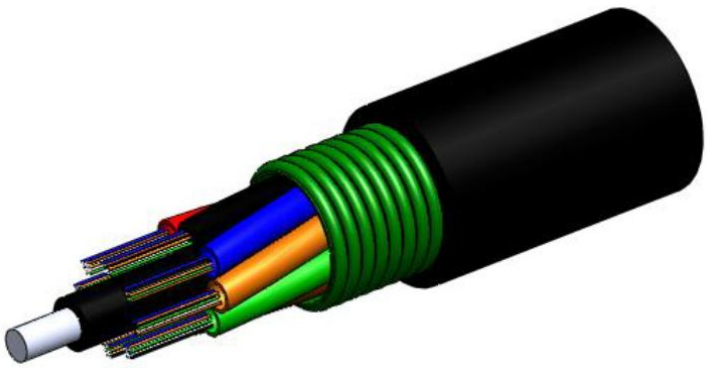
Fiber color	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
Tube color	Blue	Orange	Green	Brown	Gray	White						

DME PROLINK Duct Fiber Optic Outdoor Armored Cable, MLT, OS2, G.657A1, PE



Construction

1. Outer sheath (PE Black)
2. Loose Tube
3. Fiber and Jelly
4. Central Strength Member (Coated Steel Wire)
5. Cable Jelly
6. Armored Tape (Steel Tape)



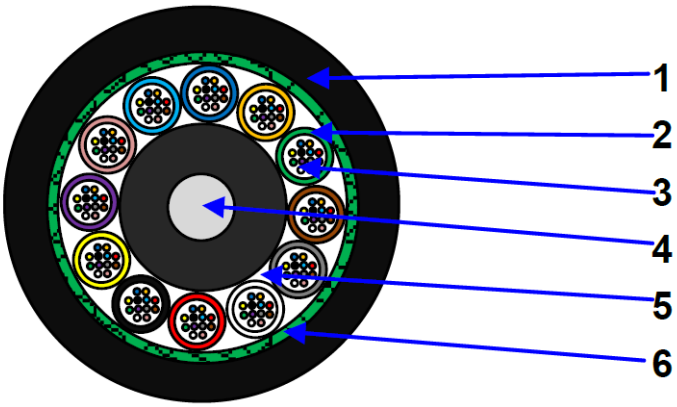
Dimension and Properties

Fiber Count	96 G.657A1
No. of Loose Tube / Filler	8/ 0
No. of Fiber per Tube	12
Cable Outer Dia	12.0mm ± 5%
Cable weight	153kg/km ± 15%
Operating Temperature Range	-40°C to +70°C
Installation Temperature Range	-10°C to +60°C
Transport and Storage Temperature Range	-40°C to +70°C
Max. Tensile Load	1500N
Crush Resistance	1000 N/10cm
Minimal Installation bending radius	20 x OD
Minimal Operating bending radius	10 x OD

Color code scheme: According to EIA/TIA 598

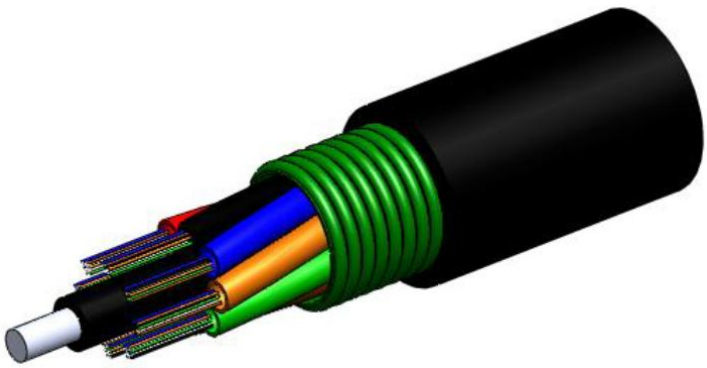
Fiber color	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
Tube color	Blue	Orange	Green	Brown	Gray	White	Red	Black				

DME PROLINK Duct Fiber Optic Outdoor Armored Cable, MLT, OS2, G.657A1, PE



Construction

1. Outer sheath (PE Black)
2. Loose Tube
3. Fiber and Jelly
4. Central Strength Member (Coated Steel Wire)
5. Cable Jelly
6. Armored Tape (Steel Tape)



Dimension and Properties

Fiber Count	144 G.657A1
No. of Loose Tube / Filler	12/ 0
No. of Fiber per Tube	12
Cable Outer Dia	15.0mm ± 5%
Cable weight	223kg/km ± 15%
Operating Temperature Range	-40°C to +70°C
Installation Temperature Range	-10°C to +60°C
Transport and Storage Temperature Range	-40°C to +70°C
Max. Tensile Load	1500N
Crush Resistance	1000 N/10cm
Minimal Installation bending radius	20 x OD
Minimal Operating bending radius	10 x OD

Color code scheme: According to EIA/TIA 598

Fiber color	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
Tube color	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

DME PROLINK Duct Fiber Optic Outdoor Armored Cable, MLT, OS2, G.657A1, PE

Cable Length : 2KM / 3KM / 4KM per Drum

Optical Fiber G.657A1 Specification

Category	Description	Values	
		Before Cable	After Cable
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km	≤0.36dB/km
	Attenuation @1550 nm	≤0.21 dB/km	≤0.22dB/km
	Zero Dispersion Wavelength	1300 – 1324nm	
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	PMD Link value (M=20cables Q=0.01%)	≤0.2ps/√km	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Macro bending Loss (10 turns; Φ30 mm) @1550 nm (10 turns; Φ30 mm) @1625 nm (1 turns; Φ20 mm) @1550 nm (1 turns; Φ20 mm) @1625 nm	 ≤ 0.25 dB ≤ 1.0 dB ≤ 0.75 dB ≤1.5 dB	
	Mode Field Diameter @1310 nm	(8.6 – 9.2) ± 0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±0.7μm	
	Cladding non circularity	≤1.0%	
	Core/clad concentricity error	≤0.5μm	
Mechanical Specifications	Proof stress	≥0.69Gpa	

Routine tests of Optical Fiber:

- IEC 60793-1-45: Mode Field Diameter
- IEC 60793-1-20: Core/Clad Concentricity, Cladding diameter, Cladding Non-circularity
- IEC 60793-1-40: Attenuation coefficient
- IEC 60793-1-42: Chromatic dispersion
- IEC 60793-1-44: Cable cut-off wavelength

Factory Tests

Tension Loading Test	
Test standard	IEC 60794-1-2 E1
Sample Length	Not less than 50 meters
Load	Max. tension load
Duration time	1 minute
Test results	Fiber strain: ≤ 0.60%
	Additional attenuation: ≤ 0.1 dB
	No damage to outer jacket and inner elements

Crush / Compression Test	
Test standard	IEC 60794-1-2 E3
Load	Crush Load
Duration time	1 minute
Test results	Additional attenuation: ≤ 0.05 dB after test
	No damage to outer jacket and inner elements

Impact Resistance Test	
Test standard	IEC 60794-1-2 E4
Impact Energy	10J
Radius	300mm
Impact Points	3
Impact Number	1
Test results	Additional attenuation: ≤ 0.1 dB
	No damage to outer jacket and inner elements

Repeated Bending Test	
Test standard	IEC 60794-1-2 E6
Bending Radius	20 x Outer diameter of cable
Cycles	25 cycles
Test results	Additional attenuation: ≤ 0.05 dB after test
	No damage to outer jacket and inner elements

Torsion/Twist Test	
Test standard	IEC 60794-1-2 E7
Sample Length	2 meter
Angles	±90 degree
Cycles	5
Test results	Additional attenuation: ≤ 0.05 dB after test
	No damage to outer jacket and inner elements

Bend Test	
Test standard	IEC 60794-1-2 E11
Mandrel Diameter	20 x diameter of cable
Turn number	4
Number of cycles	3
Test results	Additional attenuation: ≤ 0.05 dB after test
	No damage to outer jacket and inner elements

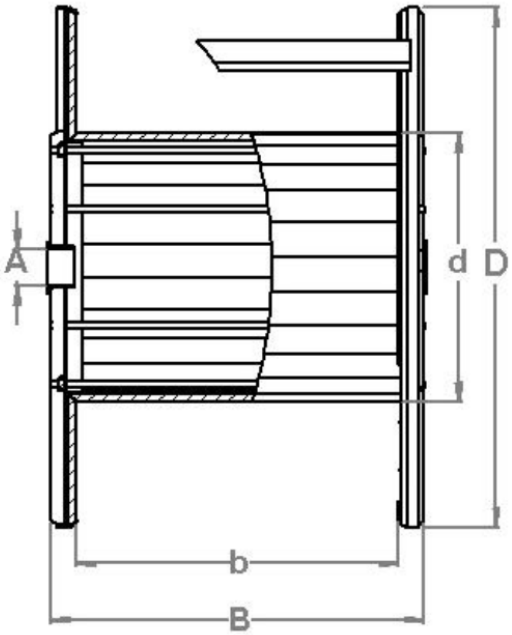
Temperature Cycling Test	
Test standard	IEC 60794-1-2 F1
Temperature Step	+20°C → -40°C → +70°C → +20°C
Time per each Step	12 Hrs
Cycles	2
Test results	Attenuation variation for reference value (the attenuation to be measured before test at +20 ± 3°C) ≤ 0.15 dB/km and is reversible during last cycle

Water Penetration Test	
Test standard	IEC 60794-1-2 F5
Height of water column	1m
Sample Length	3m
Test Time	24 Hrs
Test results	No water leakage from the opposite side of the sample

Drip Test	
Test standard	IEC 60794-1-2 E14
Sample Length	0.3m
Temperature	70°C
Test Time	24 Hrs
Test results	No filling compound shall drip from tubes

Packing

DME PROLINK cables are coiled on Bakelite, wooden or ironwood drum with Strong wooden batten protection. During transportation, right tools should be used to avoid damaging the package and to handle with ease. Cables should be protected from moisture; kept away from high temperature and fire sparks; protected from over bending and crushing; protected from mechanical stress and damage. The color of cable marking is white. (The printing shall be carried out at interval of 1 meter on the outer sheath of cable) The inner end of cable is then sealed with heat shrinkable end cap to prevent ingress of water and is made available for testing. The outer end of cable is equipped with heat shrinkable end cap. Outer sheath marking legend can be changed according to user's requests.



Wooden Drum Dimension & Weight: D x d x B cm (Weight – Kg)			
Type of Cable	Length of Reel		
	2KM / Reel	3KM / Reel	4KM / Reel
4F, 12F, 24F	95 x 40 x 75 (264)	105 x 40 x 75 (368)	115 x 50 x 75 (480)
36F, 48F, 60F	105 x 50 x 75 (308)	115 x 50 x 75 (430)	125 x 50 x 75 (553)
72F	105 x 50 x 75 (342)	115 x 50 x 75 (461)	125 x 50 x 75 (597)
96F	115 x 50 x 75 (404)	125 x 50 x 75 (572)	135 x 50 x 75 (758)
144F	145 x 70 x 75 (616)	155 x 70 x 75 (857)	155 x 70 x 105 (1108)

Note: The drum size and cable weight mentioned above is estimated. The Final size and weight shall be confirmed before shipment.

DME PROLINK Duct Fiber Optic Outdoor Armored Cable, MLT, OS2, G.657A1, PE

Part Number

D	1	1	3	x	-	n	t	m	j	p	s	c

x	Pin assigned by ECS
0-9	Inventory Management Index

n	Number of Fiber Core
04 - 1000	4 – 1000 Fiber Core

t	Type
LF	Loose Fiber
RF	Ribbon Fiber

m	Mode
6	OS1
7	OS2

j	Outer Jacket Material
PV	Polyvinyl Chloride
PE	Polyethylene
FRPV	Flame Retardant Polyvinyl Chloride

p	Physical Construction
ST	Steel Tape Armor

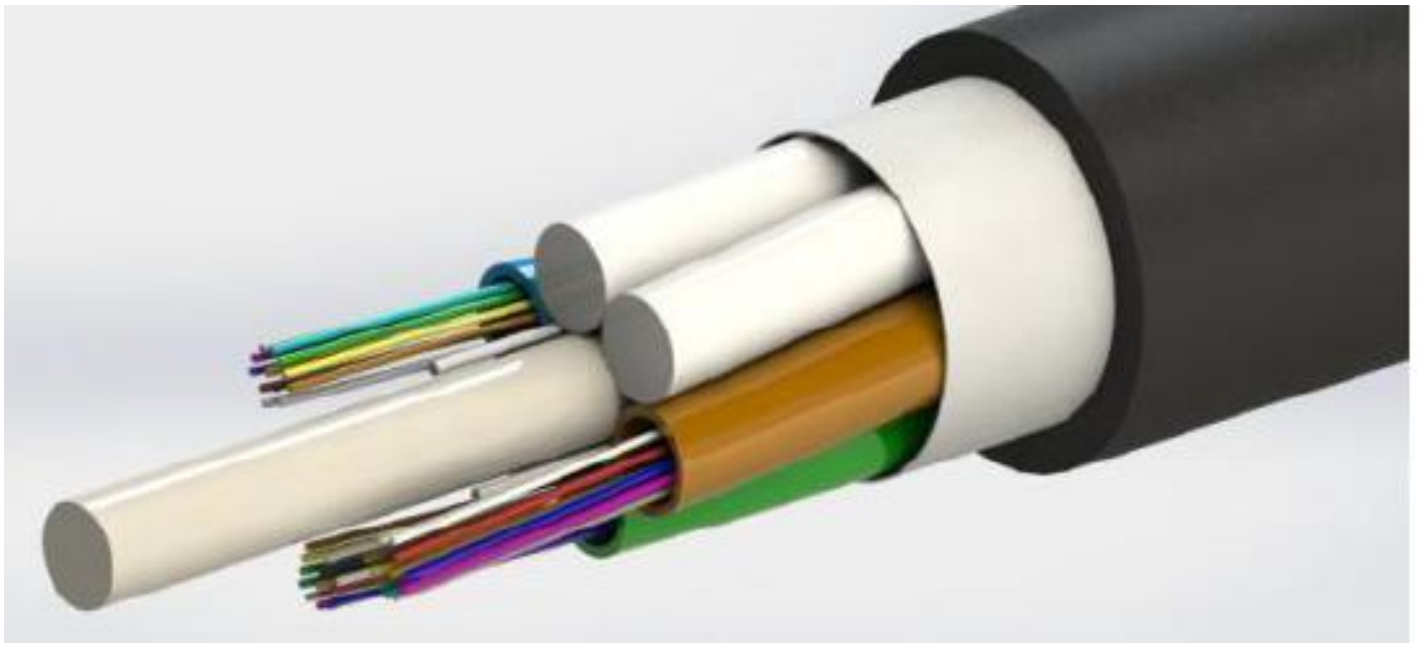
s	Specification
2D	G.652D
7A1	G.657A1
7A2	G.657A2

c	Color
BK	Black

Examples

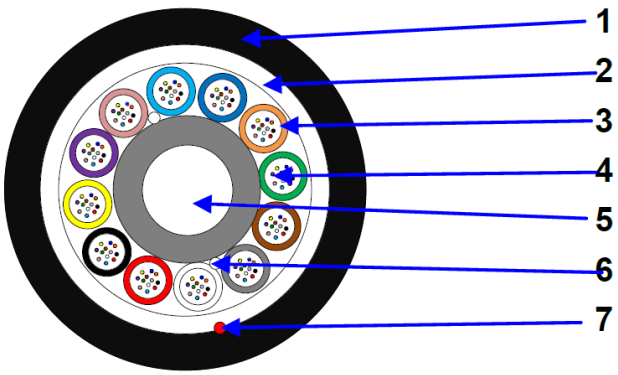
D1139-04LF7PEST7A1BK	Fiber Optic Outdoor Duct Armored Cable, 4 Core, Multi Loose Tube, Single-mode OS2, PE, G.657A1, Black
D1139-72LF7PEST7A1BK	Fiber Optic Outdoor Duct Armored Cable, 72 Core, Multi Loose Tube, Single-mode OS2, PE, G.657A1, Black
D1139-144LF7PEST7A1BK	Fiber Optic Outdoor Duct Armored Cable, 144 Core, Multi Loose Tube, Single-mode OS2, PE, G.657A1, Black

DME PROLINK Duct Fiber Optic Outdoor Dielectric Cable, MLT, OS2, G.652D, LSZH



Description

The Fiber used in *DME PROLINK*'s Fiber Optic cable, is made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. *DME PROLINK* cable possesses high tensile strength and flexibility in compact cable sizes. At the same time, it provides excellent optical transmission and physical performance. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001. Initial and periodic product qualification tests for performance and durability are performed rigorously to ensure product reliability.



Construction

1. Outer sheath (LSZH)
2. Water Blocking Tape
3. Loose Tube
4. Fiber and Jelly
5. Central Strength Member (Coated FRP)
6. Water Blocking Yarns
7. Ripcord

DME PROLINK Duct Fiber Optic Outdoor Dielectric Cable, MLT, OS2, G.652D, LSZH

Technical Characteristics

- The unique extruding technology provides the fibers in the tube with good flexibility and bending endurance
- The unique fiber excess length control method provides the cable with excellent mechanical and environmental properties.
- Multiple water blocking material filling provides dual water blocking function
- Provides good tension performance.

The Fiber optic cable are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-3-10: Optical fiber cables – Part 3-10: Outdoor cables – family specification for Duct and directly buried optical telecommunication cables
- ITU-T G.650: Definition and test methods for the relevant parameters of Single mode Fibers.
- ITU-T G652: Characteristics of a Single-mode optical fiber and cable
- EIA/TIA 598: Color code of Fiber optic cables

Dimension and Properties

Fiber Count	144 G.652D
No. of Loose Tube / Filler	12/ 0
No. of Fiber per Tube	12
Cable Outer Dia	14.5mm ± 5%
Cable weight	194 kg/km ± 15%
Operating Temperature Range	-30°C to +70°C
Installation Temperature Range	-5°C to +50°C
Transport and Storage Temperature Range	-40°C to +70°C
Max. Tensile Load	2700N
Crush Resistance	2000 N/10cm
Minimal Installation bending radius	20 x OD
Minimal Operating bending radius	10 x OD

DME PROLINK Duct Fiber Optic Outdoor Dielectric Cable, MLT, OS2, G.652D, LSZH

Color code scheme: According to EIA/TIA 598

Fiber color	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
Tube color	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Cable Length : 4KM per Drum

Optical Fiber G.652D Specification

Category	Description	Values	
		Before Cabling	After Cabling
Optical Specifications	Attenuation @1310 nm	≤0.34 dB/km	≤0.35 dB/km
	Attenuation @1383 nm	≤0.34 dB/km	≤0.35 dB/km
	Attenuation @1550 nm	≤0.20 dB/km	≤0.22 dB/km
	Chromatic Dispersion at 1285~1330nm	≤3.5 ps/nm·km	
	Chromatic Dispersion at 1550nm	≤18 ps/nm·km	
	Zero Dispersion Wavelength	1300~1324 nm	
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	PMD Max. Link value (before cable)	0.06 ps/√km	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Mode Field Diameter @1310 nm	9.2 ± 0.4μm	
	Macro Bending Loss (100 turns;Φ 50mm) @ 1550 nm (100 turns;Φ 50mm) @ 1625 nm	 ≤0.05 dB ≤0.10 dB	
Dimensional Specifications	Cladding Diameter	125 ±0.7μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	242 ± 5μm	
	Core/clad concentricity error	≤0.6 μm	
Mechanical Specifications	Proof stress	≥0.69Gpa	

Routine tests of Optical Fiber:

- IEC 60793-1-45: Mode Field Diameter
- IEC 60793-1-20: Core/Clad Concentricity, Cladding diameter, Cladding Non-circularity
- IEC 60793-1-40: Attenuation coefficient
- IEC 60793-1-42: Chromatic dispersion
- IEC 60793-1-44: Cable cut-off wavelength

Factory Tests

Tension Loading Test	
Test standard	IEC 60794-1-2 E1
Sample Length	Not less than 50 meters
Load	Max. tension load
Duration time	1 minute
Test results	Fiber strain: ≤ 0.60%
	Additional attenuation: ≤ 0.1 dB
	No damage to outer jacket and inner elements

Crush / Compression Test	
Test standard	IEC 60794-1-2 E3
Load	Crush Load
Duration time	1 minute
Test results	Additional attenuation: ≤ 0.1 dB
	No damage to outer jacket and inner elements

Impact Resistance Test	
Test standard	IEC 60794-1-2 E4
Impact Energy	5J
Radius	300mm
Impact Points	3
Impact Number	1
Test results	Additional attenuation: ≤ 0.1 dB
	No damage to outer jacket and inner elements

Repeated Bending Test	
Test standard	IEC 60794-1-2 E6
Bending Radius	20 x diameter of cable
Cycles	30 cycles
Test results	Additional attenuation: ≤ 0.1 dB
	No damage to outer jacket and inner elements

Torsion/Twist Test	
Test standard	IEC 60794-1-2 E7
Sample Length	2 meter
Angles	±180 degree
Cycles	5
Test results	Additional attenuation: ≤ 0.1 dB
	No damage to outer jacket and inner elements

Bend Test	
Test standard	IEC 60794-1-2 E11A
Mandrel Diameter	20 x diameter of cable
Turn number	4
Number of cycles	3
Test results	Additional attenuation: ≤ 0.1 dB
	No damage to outer jacket and inner elements

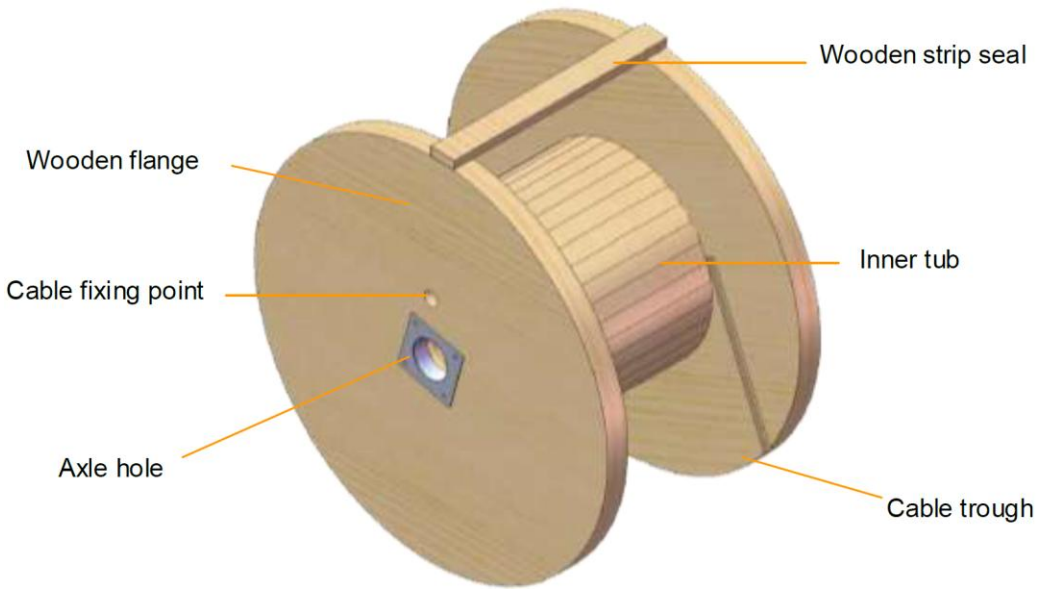
Temperature Cycling Test	
Test standard	IEC 60794-1-2 F1
Temperature Step	+20°C → -40°C → +70°C → -40°C → +70°C → +20°C
Time per each Step	12 Hrs
Cycles	2
Test results	Attenuation variation for reference value (the attenuation to be measured before test at +20 ± 3°C) ≤ 0.1 dB/km at 1550nm

Water Penetration Test	
Test standard	IEC 60794-1-2 F5
Height of water column	1m
Sample Length	3m
Test Time	24 Hrs
Test results	No water leakage from the other side of the sample

Drip Test	
Test standard	IEC 60794-1-2 E14
Sample Length	0.3m
Temperature	70°C
Duration	24 Hrs
Test results	No filling compound shall drip from tubes

Packing

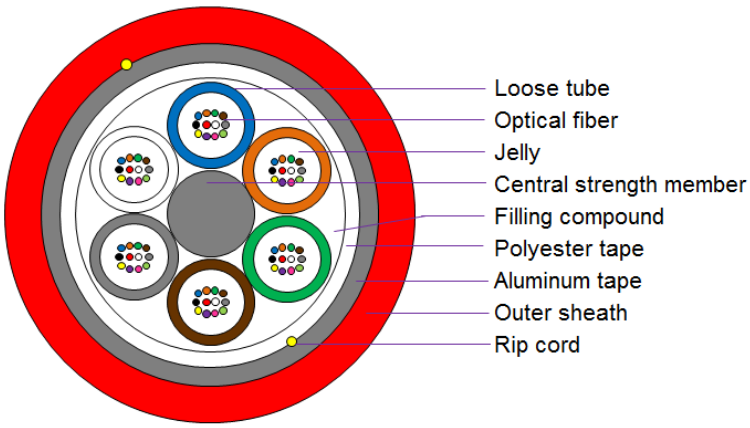
DME PROLINK cables are packed in carton, coiled on Bakelite & wooden drum. During transportation, right tools should be used to avoid damaging the package and to handle with ease. Cables should be protected from moisture; kept away from high temperature and fire sparks; protected from over bending and crushing; protected from mechanical stress and damage. The color of cable marking is white. (The printing shall be carried out at interval of 1 meter on the outer sheath of cable) The inner end of cable is then sealed with heat shrinkable end cap to prevent ingress of water and is made available for testing. The outer end of cable is equipped with heat shrinkable end cap. Outer sheath marking legend can be changed according to user's requests.



Part Number

D1139-1447LSJF2DBK	Fiber Optic Outdoor Duct Cable, 144 Core, Multi Loose Tube, Single-mode OS2, LSZH, G.652D, Black

DME PROLINK Fiber Optic Outdoor Armored Cable, MLT, with 2 Ripcords, Polyester/Al Tape, Steel CST, OS2, G.652D, PE



FIBER DME

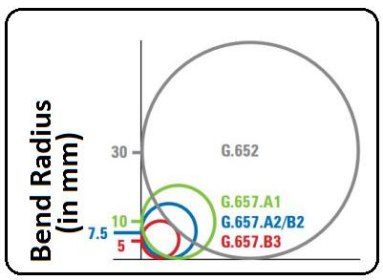
25 YEARS SYSTEM WARRANTY

Description

DME PROLINK's Outdoor Armored MLT FO cable is designed specifically for FTTx applications requiring low to Higher core-counts. The Single-mode FO cable is with G.652D specifications. Multi Loose Tube construction with Steel wire as Central Strength member (CST). The polyester tape is used to bind the cable core and the filling compound. Aluminum Tape applied over polyester tape which will act as moisture barrier.

The Fiber used in *DME PROLINK*'s Fiber Optic cables, are made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

Features & Benefits



- Fiber Specification G.652D
- PE Outer Sheath
- Multi Loose Tubes filled with Jelly
- Color code scheme: According to EIA/TIA 598
- 2 Ripcords provided for easy stripping
- Polyester Tape / Aluminum Tape for Moisture Barrier
- Filling compound for Water Ingress resistance
- Central Strength Member: Phosphatized Steel Wire for additional strength
- Predictable lifetime of 30 years

The Fiber within FO cable are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G652: Characteristics of a Single-mode optical fiber and cable
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable

DME PROLINK Fiber Optic Outdoor Armored Cable, MLT, with 2 Ripcords, Polyester/Al Tape, Steel CST, OS2, G.652D, PE

Optical Fiber G.652D Specification

Category	Description	Values
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km
	Attenuation @1550 nm	≤0.22dB/km
	Zero Dispersion Slope	≤0.092 ps/nm²·km
	Dispersion in the range 1288 to 1339nm:	≤3.5ps/ (nm*km)
	Dispersion in the range 1530 to 1565nm:	≤18ps/ (nm*km)
	Polarization mode dispersion link value:	≤0.2ps/√km
	Cable Cutoff Wavelength (λcc)	≤1260 nm
	Macro bending Loss (100 turns; Φ30 mm) @1550 nm (100 turns; Φ30 mm) @1625 nm	 ≤ 0.05 dB ≤ 0.05 dB
	Mode Field Diameter @1310 nm	9.2 ± 0.4μm
	Mode Field Diameter @1550 nm	10.4 ± 0.8μm
Dimensional Specifications	Cladding Diameter	125 ±1μm
	Cladding non circularity	≤1.0%
	Core/cladding concentricity error	≤0.6μm
Environmental Specification	Operation temperature range	-20℃ to + 70℃
	Installation temperature range	0℃ to + 60℃
	Transport and storage temperature range	-20℃ to + 70℃

Color coding for Optical Fiber

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

Color coding for Loose Tubes (For 2 to 144 Fiber Cable)

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

DME PROLINK Fiber Optic Outdoor Armored Cable, MLT, with 2 Ripcords, Polyester/Al Tape, Steel CST, OS2, G.652D, PE

Color coding for Loose Tubes (288 Fiber Cable)

1st Layer Code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

2nd Layer Code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua
13	14	15									
Blue	Orange	Green									

Physical / Mechanical Characteristics of Fiber Optic Cable

Physical	**Fiber count**	**2**	**4/8**	**12/24/36**	**72**	**96**	**144**	**288**
	No. of Fiber per tube	**2**	**4**	**12**	**12**	**12**	**12**	**12**
	No. of Elements (Tubes and Filler rods)	**5**	**5**	**5**	**6**	**8**	**12**	**9+15**
	Cable OD (mm ±5%)	**11.2**	**11.2**	**11.2**	**11.8**	**13.1**	**15.8**	**17.8**
	Cable weight (kg/km ± 10%)	**107**	**109**	**112**	**142**	**165**	**233**	**307**
Mechanical	Short Term Tension	**1500**						
	Short Term Crush	1500N/100mm						
	Minimal installation bending radius (Dynamic)	20 x OD						
	Minimal operation bending radius (Static)	10 x OD						

Routine Factory tests of single-mode fiber

Parameters	Test Standards
Mode field diameter	IEC 60793-1-45.
Mode field Core/clad concentricity	IEC 60793-1-20
Cladding diameter	IEC 60793-1-20
Cladding non-circularity	IEC 60793-1-20
Attenuation coefficient	IEC 60793-1-40
Chromatic dispersion	IEC 60793-1-42
Cable cut-off wavelength	IEC 60793-1-44

DME PROLINK Fiber Optic Outdoor Armored Cable, MLT, with 2 Ripcords, Polyester/Al Tape, Steel CST, OS2, G.652D, PE

Factory Test List for Fiber Optic Cable*

Tension Loading Test

Test Standard	IEC 60794-1-2 E1
Sample Length	No less than 50 meters
Load	Short term tension
Duration time	1 minute
Test results	Fiber strain ≤ 0.33%
	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Crush Test

Test Standard	IEC 60794-1-2 E3
Load	Short Term crush
Duration time	1 minute
Test results	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Torsion Resistance Test

Test Standard	IEC 60794-1-2 E7
Sample Length	1m
Twist angle	±180°
Number of Cycles	10
Test results	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Temperature Cycling Test

Test Standard	IEC 60794-1-2 F1
Temperature Range	-20°C to +70°C
Time of each step	12H
Number of cycles	2
Test results	Additional attenuation ≤ 0.1 dB/km @1550nm
	No damage to outer jacket and inner elements

DME PROLINK Fiber Optic Outdoor Armored Cable, MLT, with 2 Ripcords, Polyester/Al Tape, Steel CST, OS2, G.652D, PE

Factory Test List for Fiber Optic Cable*

Impact Test

Test Standard	IEC 60794-1-2 E4
Points of impact	3
No. of Times per point	1
Impact Energy	5J (Striking surface radius: 300mm)
Test results	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Cable Bend Test

Test Standard	IEC 60794-1-2 E11
Diameter of Mandrel	20 x OD
Number of turns	4
Number of Cycles	3
Test results	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Water Penetration Test

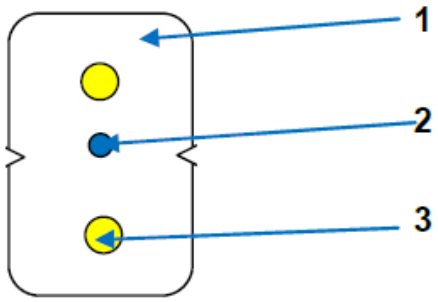
Test Standard	IEC 60794-1-2 F5B
Height of water	1m
Sample length	3m
Time	24H
Test results	No water leak from the cable core of the opposite end

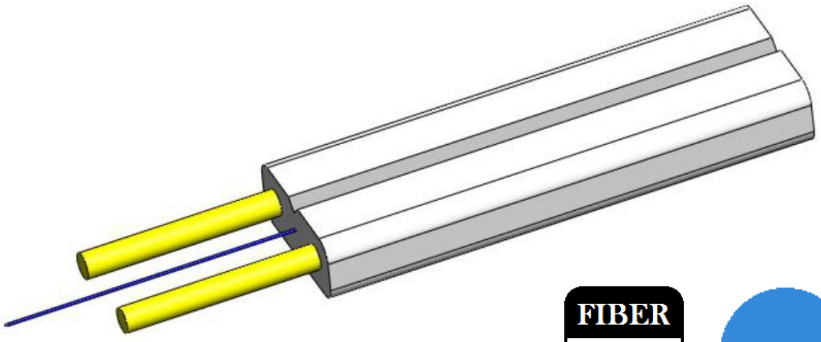
DME PROLINK Fiber Optic Outdoor Armored Cable, MLT, with 2 Ripcords, Polyester/Al Tape, Steel CST, OS2, G.652D, PE

Part Number

D11311-027PEATN2DRD	Fiber Optic Outdoor Armored Cable, 2 Core, MLT, with 2 Ripcords, Polyester/Aluminum Tape, Steel Wire CST, Single-mode OS2, PE, G.652D, Red
D11311-047PEATN2DRD	Fiber Optic Outdoor Armored Cable, 4 Core, MLT, with 2 Ripcords, Polyester/Aluminum Tape, Steel Wire CST, Single-mode OS2, PE, G.652D, Red
D11311-087PEATN2DRD	Fiber Optic Outdoor Armored Cable, 8 Core, MLT, with 2 Ripcords, Polyester/Aluminum Tape, Steel Wire CST, Single-mode OS2, PE, G.652D, Red
D11311-127PEATN2DRD	Fiber Optic Outdoor Armored Cable, 12 Core, MLT, with 2 Ripcords, Polyester/Aluminum Tape, Steel Wire CST, Single-mode OS2, PE, G.652D, Red
D11311-247PEATN2DRD	Fiber Optic Outdoor Armored Cable, 24 Core, MLT, with 2 Ripcords, Polyester/Aluminum Tape, Steel Wire CST, Single-mode OS2, PE, G.652D, Red
D11311-367PEATN2DRD	Fiber Optic Outdoor Armored Cable, 36 Core, MLT, with 2 Ripcords, Polyester/Aluminum Tape, Steel Wire CST, Single-mode OS2, PE, G.652D, Red
D11311-727PEATN2DRD	Fiber Optic Outdoor Armored Cable, 72 Core, MLT, with 2 Ripcords, Polyester/Aluminum Tape, Steel Wire CST, Single-mode OS2, PE, G.652D, Red
D11311-967PEATN2DRD	Fiber Optic Outdoor Armored Cable, 96 Core, MLT, with 2 Ripcords, Polyester/Aluminum Tape, Steel Wire CST, Single-mode OS2, PE, G.652D, Red
D11311-1447PEATN2DRD	Fiber Optic Outdoor Armored Cable, 144 Core, MLT, with 2 Ripcords, Polyester/Aluminum Tape, Steel Wire CST, Single-mode OS2, PE, G.652D, Red
D11311-2887PEATN2DRD	Fiber Optic Outdoor Armored Cable, 288 Core, MLT, with 2 Ripcords, Polyester/Aluminum Tape, Steel Wire CST, Single-mode OS2, PE, G.652D, Red

DME PROLINK Fiber Optic Drop Cable Indoor Single mode KFRP for FTTx





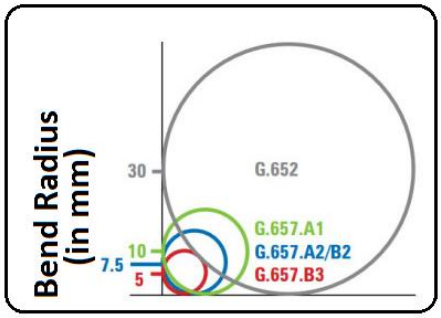
1. Outer Sheath (**Low Friction LSZH**)
2. 1 or 2 or 4 Fiber **G.657A2**
3. Strength Member (**KFRP**)

Description

DME PROLINK's 1 or 2 or 4 Core Indoor Drop Fiber cable is designed and manufactured to the highest standards. Available as Single-mode (G.657A2 compliant), it provides the bend-insensitivity and robustness essential to a successful FTTx deployment

The Aramid Reinforced Plastic Rod strength member offers more than adequate strength to pull long lengths of this cable while significantly reducing the weight of the cable.

The Fiber used in *DME PROLINK*'s Fiber Optic cables, are made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.



Features & Benefits

- Available as G.652D and G.657A1/A2
- Approved by Service Providers
- LSZH and OFN Rated
- Predictable lifetime of 30 years
- Complies with Telcordia GR-20 core
- Color code scheme: According to EIA/TIA 598
- Compact Figure & Easy to Install
- Suitable for Indoor Connections within Multi Dwelling Units (MDU)
- Designed as per Etisalat standards for FTTH Deployments and applications

DME PROLINK Fiber Optic Drop Cable Indoor Single mode KFRP for FTTx

The Fiber within FO Drop cable are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G650: Definition and test methods for the relevant parameters of single-mode fibers
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
- ITU-T G.657: Characteristics of a bending-loss insensitive single-mode optical fiber

Optical Fiber G.657A2 Specification

Category	Description	Values	
		Before Cabling	After Cabling
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km	≤0.40 dB/km
	Attenuation @1550 nm	≤0.21 dB/km	≤0.30 dB/km
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	Zero Dispersion Wavelength	1300 – 1324 nm	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Macro bending Loss (10 turns; Φ30 mm) @1550 nm (10 turns; Φ30 mm) @1625 nm (1 turn; Φ20 mm) @1550 nm (1 turn; Φ20 mm) @1625 nm 1 turn; Φ15 mm) @1550 nm (1 turn; Φ15 mm) @1625 nm	≤ 0.03 dB ≤ 0.10dB ≤ 0.10 dB ≤ 0.20 dB ≤ 0.50 dB ≤ 1.00 dB	
	Mode Field Diameter @1310 nm	8.6 ± 0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	245 ± 7μm	
	Coating non circularity	≤ 6%	
	Cladding / coating concentricity error	≤ 6μm	
	Core/clad concentricity error	≤0.5μm	
Mechanical Specifications	Proof stress	≥1.05%	
Environmental Specification	Operation temperature range	-20℃ to + 60℃	
	Installation temperature range	-20℃ to + 60℃	
	Transport and storage temperature range	-20℃ to + 60℃	

DME PROLINK Fiber Optic Drop Cable Indoor Single mode KFRP for FTTx

Physical / Mechanical Characteristics of Fiber Optic Cable

Physical	**Fiber count**	**1 or 2 or 4 G.657A2**
	Tight buffer fiber diameter	0.9mm ± 50μm
	Strength member	FRP
	Cable OD	(2.0*3.0mm) ± 5%
	Cable weight	10 kg/km ± 15%
Mechanical	Max. tensile load	80N
	Crush resistance	500N/10cm
	Minimal installation bending radius	20 x OD
	Minimal operation bending radius	10 x OD

Routine Factory tests of single-mode fiber

Parameters	Test Standards
Mode field diameter	IEC 60793-1-45.
Mode field Core/clad concentricity	IEC 60793-1-20
Cladding diameter	IEC 60793-1-20
Cladding non-circularity	IEC 60793-1-20
Attenuation coefficient	IEC 60793-1-40
Chromatic dispersion	IEC 60793-1-42
Cable cut-off wavelength	IEC 60793-1-44

Part Number

D114x-ID2F77A2YW	**Fiber Optic Indoor Drop Cable, 2 Core, Single-mode OS2, LSZH, G.657A2, Yellow**
D114x-ID1F77A2WT	**Fiber Optic Indoor Drop Cable, 1 Core, Single-mode OS2, LSZH, G.657A2, white**
D114x-ID2F72DWT	**Fiber Optic Indoor Drop Cable, 2 Core, Single-mode OS2, LSZH, G.652D, white**
D114x-ID4F77A2WT	**Fiber Optic Indoor Drop Cable, 4Core, Single-mode OS2, LSZH, G.657A2, White**

Factory Test List for Fiber Optic Cable*

Tension Loading Test

Test Standard	IEC 60794-1-2 E1
Sample Length	No less than 50 meters
Load	Max. tension load
Duration time	1 minute
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

Crush / Compression Test

Test Standard	IEC 60794-1-2 E3
Load	Crush load
Duration time	1 minute
Test number	1
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

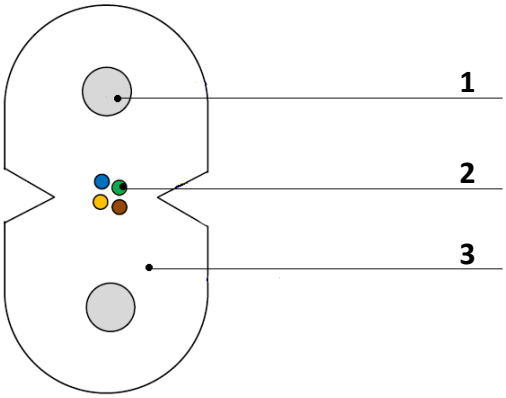
Impact Resistance Test

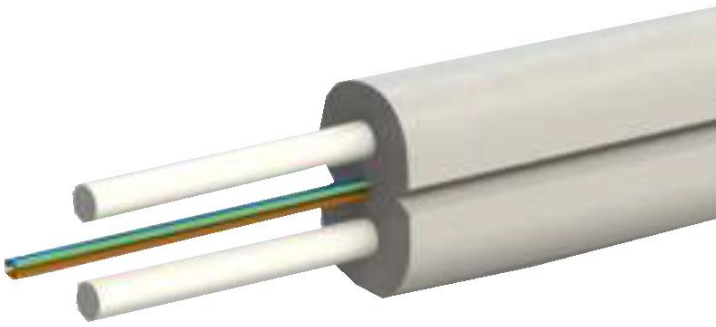
Test Standard	IEC 60794-1-2 E4
Impact energy	1J
Radius	12.5mm
Impact Points	3
Impact Number	1
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

Bend Test

Test Standard	IEC 60794-1-2 E11A
Bending Radius	20 x diameter of cable
Turn number	4
Number of cycles	1
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

DME PROLINK Fiber Optic Drop Cable Indoor Single mode (Steel Wire) for FTTx





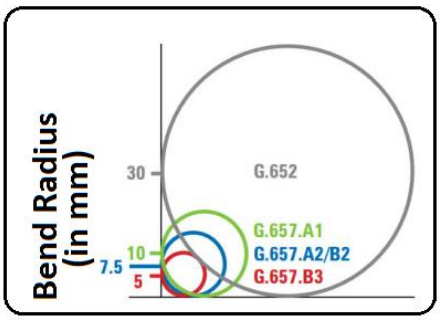
1. Strength Member (**Steel Wire**)
2. Colored 4 Fibers **G.657A2**
3. Outer Sheath (**Low Friction LSZH**)

Description

DME PROLINK's 4-Core Indoor Drop Fiber cable is designed and manufactured to the highest standards. Available as Single-mode (G.657A2 compliant), it provides the bend-insensitivity and robustness essential to a successful FTTx deployment

The Steel wire strength member offers more than adequate strength to pull long lengths of this cable. The Fiber used in *DME PROLINK*'s Fiber Optic cables, are made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

Features & Benefits



- Available as G.657A1/A2
- Approved by Service Providers
- LSZH and OFN Rated
- Predictable lifetime of 30 years
- Complies with Telcordia GR-20 core
- Color code scheme: According to EIA/TIA 598
- Compact Figure & Easy to Install
- Suitable for Indoor Connections within Multi Dwelling Units (MDU)
- Designed as per Taawun standards for FTTH Deployments and applications

DME PROLINK Fiber Optic Drop Cable Indoor Single mode (Steel Wire) for FTTx

The Fiber within FO Drop cable are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G650: Definition and test methods for the relevant parameters of single-mode fibers
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
- ITU-T G.657: Characteristics of a bending-loss insensitive single-mode optical fiber

Optical Fiber G.657A2 Specification

Category	Description	Values	
		Before Cabling	After Cabling
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km	≤0.40 dB/km
	Attenuation @1550 nm	≤0.21 dB/km	≤0.30 dB/km
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	Zero Dispersion Wavelength	1300 – 1324 nm	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Macro bending Loss (10 turns; Φ30 mm) @1550 nm (10 turns; Φ30 mm) @1625 nm (1 turn; Φ20 mm) @1550 nm (1 turn; Φ20 mm) @1625 nm 1 turn; Φ15 mm) @1550 nm (1 turn; Φ15 mm) @1625 nm	≤ 0.03 dB ≤ 0.10dB ≤ 0.10 dB ≤ 0.20 dB ≤ 0.50 dB ≤ 1.00 dB	
	Mode Field Diameter @1310 nm	8.6 ± 0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	245 ± 7μm	
	Coating non circularity	≤ 6%	
	Cladding / coating concentricity error	≤ 6μm	
	Core/clad concentricity error	≤0.6μm	
Mechanical Specifications	Proof stress	≥1.05%	
Environmental Specification	Operation temperature range	-20℃ to + 60℃	
	Installation temperature range	-20℃ to + 60℃	
	Transport and storage temperature range	-20℃ to + 60℃	

DME PROLINK Fiber Optic Drop Cable Indoor Single mode (Steel Wire) for FTTx

Physical / Mechanical Characteristics of Fiber Optic Cable

Physical	**Fiber count**	**4 G.657A2**
	Tight buffer fiber diameter	0.9mm ± 50μm
	Strength member	Steel Wire
	Cable OD	(2.0*3.0mm) ± 5%
	Cable weight	10 kg/km ± 15%
Mechanical	Max. tensile load	Min. 220N
	Crush resistance	1000N/100mm
	Minimal installation bending radius	30mm
	Minimal operation bending radius	15mm

Color Code Scheme

Fiber Color	Blue, Orange, Green, Brown
Sheath	White

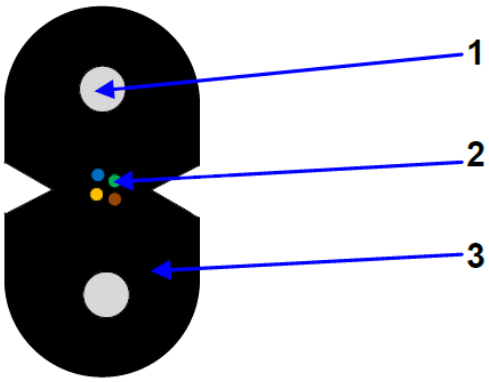
Routine Factory tests of single-mode fiber

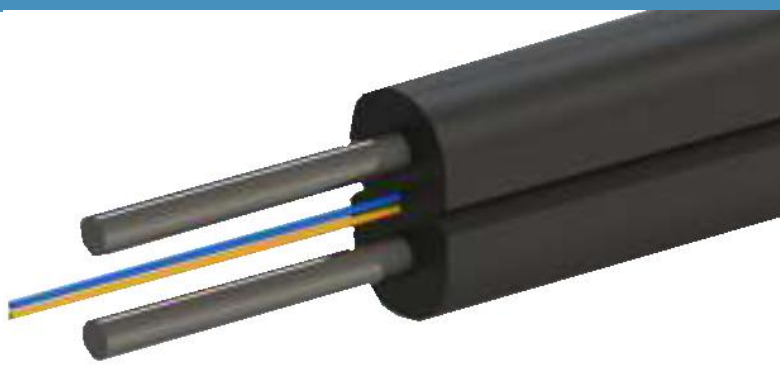
Parameters	Test Standards
Mode field diameter	IEC 60793-1-45.
Mode field Core/clad concentricity	IEC 60793-1-20
Cladding diameter	IEC 60793-1-20
Cladding non-circularity	IEC 60793-1-20
Attenuation coefficient	IEC 60793-1-40
Chromatic dispersion	IEC 60793-1-42
Cable cut-off wavelength	IEC 60793-1-44

Part Number

D1149-ID477A2WT	**Fiber Optic Indoor Drop Cable, 4 Core, Single-mode OS2, LSZH, G.657A2, White with Steel Strength Member**

DME PROLINK Fiber Optic Drop Cable Outdoor Single mode (Steel Wire) for FTTx





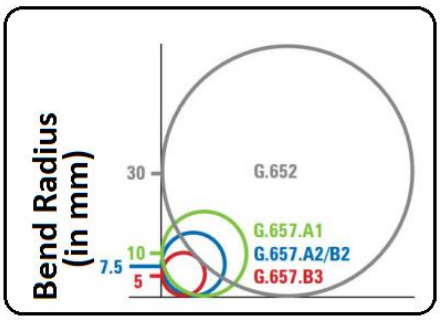
1. Strength Member (**Steel Wire**)
2. Colored 4 Fibers **G.657A2**
3. Outer Sheath (UV-resistant, **Low Friction LSZH**)

Description

DME PROLINK's 4-Core Outdoor Drop Fiber cable is designed and manufactured to the highest standards. Available as Single-mode (G.657A2 compliant), it provides the bend-insensitivity and robustness essential to a successful FTTx deployment in outdoor environment.

The Steel wire strength member offers more than adequate strength to pull long lengths of this cable. The Fiber used in *DME PROLINK*'s Fiber Optic cables, are made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

Features & Benefits



- Available as G.657A1/A2
- Approved by Service Providers
- UV resistant, LSZH and OFN Rated
- Predictable lifetime of 30 years
- Complies with Telcordia GR-20 core
- Color code scheme: According to EIA/TIA 598
- Compact Figure & Easy to Install
- Suitable for OSP network
- Designed as per Taawun standards for FTTH Deployments and applications

DME PROLINK Fiber Optic Drop Cable Outdoor Single mode (Steel Wire) for FTTx

The Fiber within FO Drop cable are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G650: Definition and test methods for the relevant parameters of single-mode fibers
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
- ITU-T G.657: Characteristics of a bending-loss insensitive single-mode optical fiber

Optical Fiber G.657A2 Specification

Category	Description	Values	
		Before Cabling	After Cabling
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km	≤0.40 dB/km
	Attenuation @1550 nm	≤0.21 dB/km	≤0.30 dB/km
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	Zero Dispersion Wavelength	1300 – 1324 nm	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Macro bending Loss (10 turns; Φ30 mm) @1550 nm (10 turns; Φ30 mm) @1625 nm (1 turn; Φ20 mm) @1550 nm (1 turn; Φ20 mm) @1625 nm 1 turn; Φ15 mm) @1550 nm (1 turn; Φ15 mm) @1625 nm	≤ 0.03 dB ≤ 0.10dB ≤ 0.10 dB ≤ 0.20 dB ≤ 0.50 dB ≤ 1.00 dB	
	Mode Field Diameter @1310 nm	8.6 ± 0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	245 ± 7μm	
	Coating non circularity	≤ 6%	
	Cladding / coating concentricity error	≤ 6μm	
	Core/clad concentricity error	≤0.6μm	
Mechanical Specifications	Proof stress	≥1.05%	
Environmental Specification	Operation temperature range	-10℃ to + 70℃	
	Installation temperature range	-20℃ to + 60℃	
	Transport and storage temperature range	-20℃ to + 60℃	

DME PROLINK Fiber Optic Drop Cable Outdoor Single mode (Steel Wire) for FTTx

Physical / Mechanical Characteristics of Fiber Optic Cable

Physical	**Fiber count**	**4 G.657A2**
	Tight buffer fiber diameter	0.9mm ± 50μm
	Strength member	Steel Wire
	Cable OD	(2.0*3.0mm) ± 5%
	Cable weight	10 kg/km ± 15%
Mechanical	Max. tensile load	Min. 220N
	Crush resistance	1000N/100mm
	Minimal installation bending radius	30mm
	Minimal operation bending radius	15mm

Color Code Scheme

Fiber Color	Blue, Orange, Green, Brown
Sheath	Black

Routine Factory tests of single-mode fiber

Parameters	Test Standards
Mode field diameter	IEC 60793-1-45.
Mode field Core/clad concentricity	IEC 60793-1-20
Cladding diameter	IEC 60793-1-20
Cladding non-circularity	IEC 60793-1-20
Attenuation coefficient	IEC 60793-1-40
Chromatic dispersion	IEC 60793-1-42
Cable cut-off wavelength	IEC 60793-1-44

Part Number

D1149-OD477A2BK	**Fiber Optic Outdoor Drop Cable, 4 Core, Single-mode OS2, LSZH, G.657A2, Black with Steel Strength Member**

DME PROLINK Fiber Optic Drop Cable Indoor & Outdoor Single mode (Steel Wire) – G.657A2 for FTTx

Factory Test List for Fiber Optic Cable*

Tension Loading Test

Test Standard	IEC 60794-1-2 E1
Sample Length	No less than 50 meters
Load	Max. tension load
Duration time	1 minute
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

Crush / Compression Test

Test Standard	IEC 60794-1-2 E3
Load	Crush load
Duration time	1 minute
Test number	1
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

Impact Resistance Test

Test Standard	IEC 60794-1-2 E4
Impact energy	1J
Radius	12.5mm
Impact Points	3
Impact Number	1
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

Repeated Bending Test

Test Standard	IEC 60794-1-2 E6
Bending Radius	20 x diameter of cable
Number of cycles	30 cycles
Test results	Additional attenuation ≤ 0.4dB
	No damage to outer jacket and inner elements

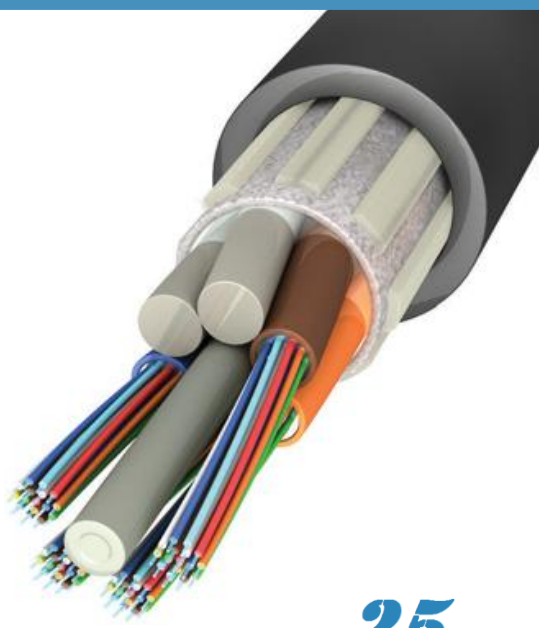
DME PROLINK Fiber Optic Drop Cable Indoor & Outdoor Single mode (Steel Wire) – G.657A2 for FTTx

Packing

DME PROLINK cables are packed in carton, coiled on Bakelite & plastic drum. During transportation, right tools should be used to avoid damaging the package and to handle with ease. Cables should be protected from moisture; kept away from high temperature and fire sparks; protected from over bending and crushing; protected from mechanical stress and damage. The color of cable marking is white. (The printing shall be carried out at interval of 1 meter on the outer sheath of cable) The inner end of cable is then sealed with heat shrinkable end cap to prevent ingress of water and is made available for testing. The outer end of cable is equipped with heat shrinkable end cap. Outer sheath marking legend can be changed according to user's requests.

DME PROLINK Fiber Optic Outdoor Cable, Unarmored, MLT / MRT, Single Mode, Jelly Filled, G652D, PE, Black

Description



DME PROLINK's Multi Loose tube/ Multi Ribbon Tube cable provides excellent optical transmission and physical performance. Loose tube cable is a design that has high tensile strength and flexibility in a compact cable size. Single mode fiber is manufactured by the vapour axial deposition (VAD) process to produce the highest quality glass with excellent geometry, high strength characteristics, and attenuation that approaches theoretical minimum. The single mode fiber is fully compatible with other commercially available single mode fibers and has the zero dispersion wavelength around 1310nm. The main operating wavelength region of the fiber is around 1285nm and 1625nm. Its optical properties are achieved through a germanium doped silica based core with a pure silica cladding. An acrylate protective coating is applied over glass cladding to provide the necessary maximum fiber lifetime.

DME PROLINK ensure a continuing level of quality in our cable products through several quality control programs including ISO 9001. Also, it ensure product reliability through rigorous qualification testing of each product family. Both initial and periodic qualification testing are performed to assure the cable's performance and durability in the field environments.

25 YEARS SYSTEM WARRANTY

FIBER DME

FTTH

Reference:

IEC 60793, IEC 60794, ITU-T G 650, G 652D

Cable Design (4 – 300 Core):

The cable core contains single mode fibers in loose tubes and required number of filler which are stranded (S-Z stranding method) around central strength member with water blocking yarn or tape. The interstices in the loose tubes are filled with jelly compound. And then wrapping tape, glass yarn and polyethylene sheath apply over the cable core.

Cable Design (400 – 1000 Core):

The cable core contains single mode fibers in loose tubes and required number of filler which are stranded (S-Z stranding method) around central strength member with water blocking yarn or tape. The interstices in the loose tubes are filled with jelly compound. And then wrapping tape, glass yarn and polyethylene sheath apply over the cable core. The cable core contains consist of parallel arranged 12-primary coated fiber (ribbon fiber) in loose tubes and required number of filler which are stranded (S-Z stranding method) around central strength member with water blocking yarn or tape. The interstices in the loose tubes are filled with jelly compound. And then wrapping tape, glass yarns and polyethylene sheath apply over the cable core.

DME PROLINK Fiber Optic Outdoor Cable, Unarmored, MLT / MRT, Single Mode, Jelly Filled, G652D, PE, Black

Optical Fiber G.652D Specification

Category	Description	Values
Optical Specifications	Attenuation @1310 nm	≤0.40 dB/km
	Attenuation @1550 nm	≤0.25 dB/km
	Chromatic Dispersion at 1285~1330nm	≤3.5 ps/nm·km
	Chromatic Dispersion at 1550nm	≤18 ps/nm·km
	Zero Dispersion Wavelength	1300~1324 nm
	Zero Dispersion Slope	≤0.093 ps/nm²·km
	Cable Cutoff Wavelength (λcc)	≤1100 to 1330 nm
	Mode Field Diameter @1310 nm	9.2 ± 0.5μm
Dimensional Specifications	Cladding Diameter	125 ±1μm
	Cladding non circularity	≤1.0%
	Coating diameter	245 ± 5μm
	Mode Field concentricity error	≤0.8 μm
Mechanical Specifications	Fiber Proof Test Level	≥ 1% x 1 Sec

Factory Tests

Cable Bend Test	
Test standard	IEC 60794-1-2 E11
Bending Radius	20 x diameter of cable
Bending Turns	1 Turn
Cycles	5 cycles
Test results	Additional attenuation: ≤ 0.1 dB
	No damage to outer jacket and inner elements

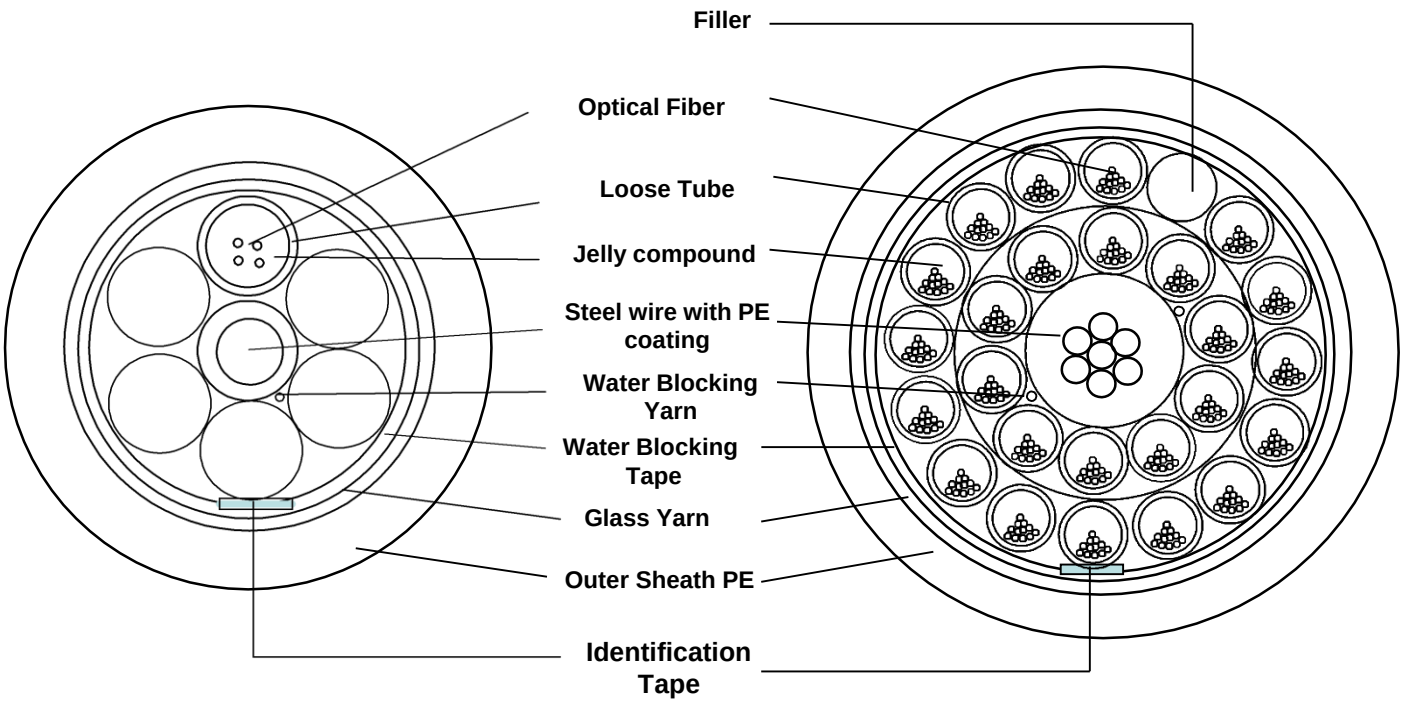
Crush Resistance Test	
Test standard	IEC 60794-1-2 E3
Applied Load	1000 N/100mm plate
Duration time	10 sec
Test results	Additional attenuation: ≤ 0.1 dB
	No damage to outer jacket and inner elements

Impact Resistance Test	
Test standard	IEC 60794-1-2 E4
Test Load	1Kg x 1m
Test results	Additional attenuation: ≤ 0.1 dB
	No damage to outer jacket and inner elements

DME PROLINK Fiber Optic Outdoor Cable, Unarmored, MLT / MRT, Single Mode, Jelly Filled, G652D, PE, Black

Construction of Optical fiber cable (Loose Fiber Core)

Description		Construction									
Total Fiber Core		4	6	8	12	16	24	48	72	100	200	300
Number of Loose Tube		1	1	2	2	3	4	4	6	9	17	25
Number of Fillers		5	5	4	4	3	2	2	0	1	1	1
Number of Fiber per Tube		4	6	6,2	6	6,4	6	12	12	12,4	8,12	12
Tube Material		PBT (Polybutylene Terephthalate)										
Filler Material		PE String										
Central Strength Member		Single or stranded steel wire with PE coating										
Filling Material		Water blocking yarn or Tape										
Wrapping Material		Water Blocking Tape										
Tensile Element		Glass Yarn										
Outer Sheath Material		Nom. 1.5mm Black color Polyethylene										
Cable	Nom. Diameter (mm)	10.0					10.7	10.7	13.6	15.5	18.4	
	Nom. Weight (kg/km)	80					94	96	160	180	270	
Max. Tensile Strength		200Kg during Installation / 100Kg after Installation										
Operating Temperature Range		- 30 to 70℃										



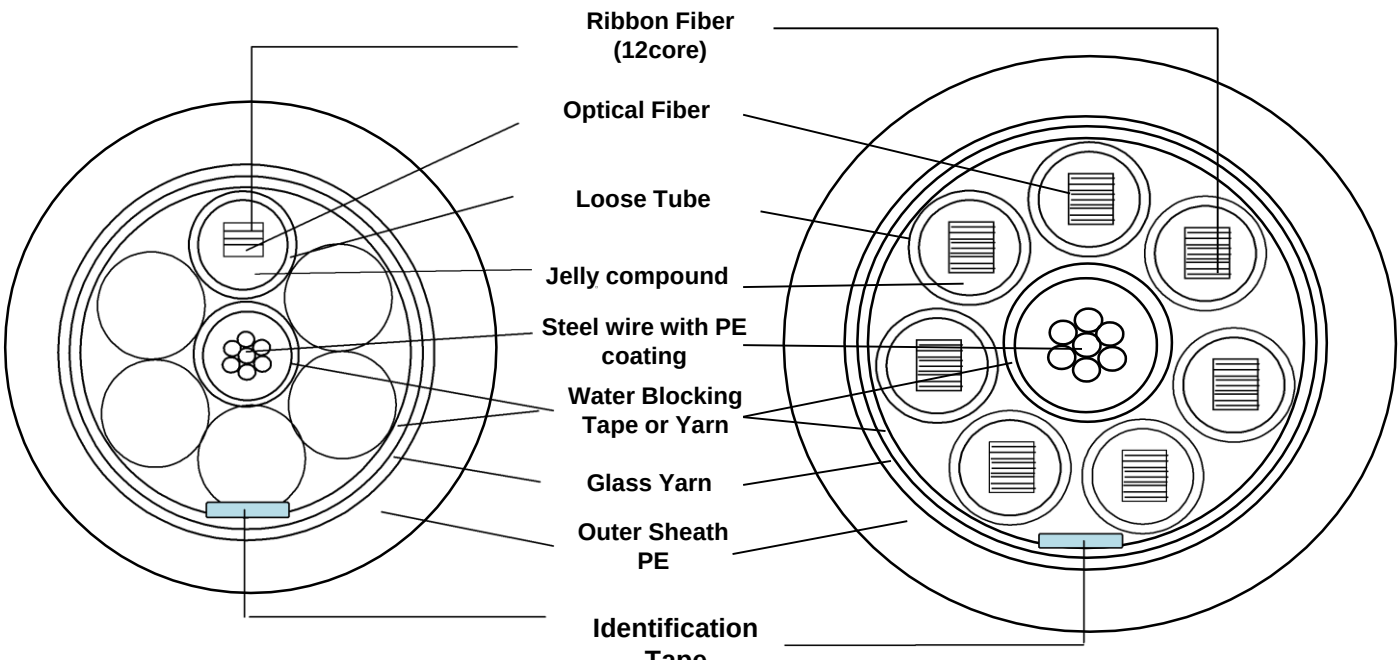
4 Core (MLT)

300 Core (MLT)

DME PROLINK Fiber Optic Outdoor Cable, Unarmored, MLT / MRT, Single Mode, Jelly Filled, G652D, PE, Black

Construction of Optical fiber cable (Ribbon Fiber Core)

Description		Construction									
Total Fiber Core		48	72	96	100	200	300	400	600	800	1000
Number of Loose Tube		1	1	2	2	3	5	6	9	6	7
Number of Ribbon		4	6	8	9	17	25	34	50	67	84
Consist of Ribbon	12 Fiber Ribbon	3	5	7	8	16	24	33	49	66	83
	Last Ribbon	1 (12 Fiber)	1 (12 Fiber)	1 (12 Fiber)	1 (4 + 8 Spare)	1 (8 + 4 Spare)	1 (12 Fiber)	1 (4 + 8 Spare)	1 (12 Fiber)	1 (8 + 4 Spare)	1 (4 + 8 Spare)
Number of Fiber per Tube		48	72	72,36	72,24	72,36	72,12	72,48	72,24	144,84	144
Tube Material		Plastic Material (TPEE etc.)									
Filler Material		PE String									
Central Strength Member		Single or stranded steel wires with PE coating									
Filling Material		Water blocking yarns or Tape									
Wrapping Material		Water Blocking Tape									
Tensile Element		Glass Yarn									
Outer Sheath Material		Nom. 1.5mm Black color Polyethylene									
Cable	Nom. Diameter (mm)	22.6							28.4	29.2	32.2
	Nom. Weight (kg/km)	370							605	645	820
Max. Tensile Strength		200Kg during Installation / 100Kg after Installation									
Operating Temperature Range		- 30 to 70℃									



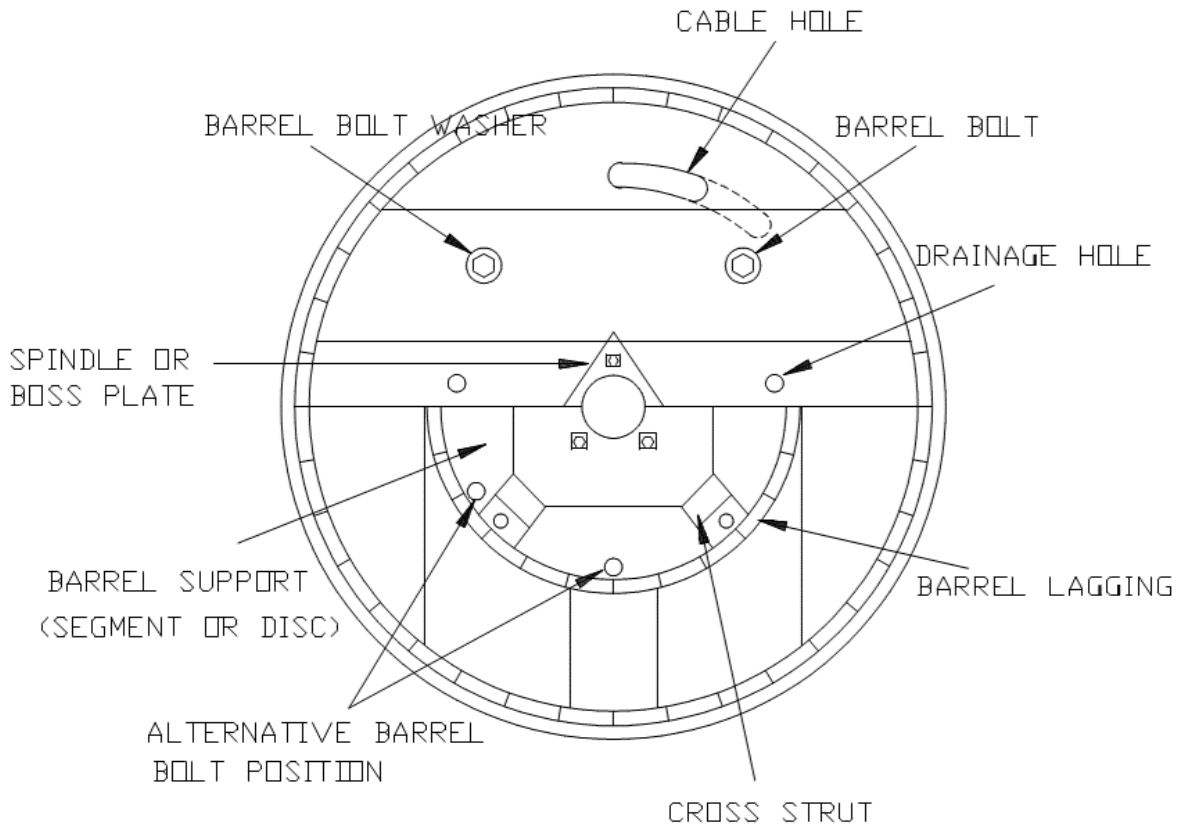
48 Core (MRT)

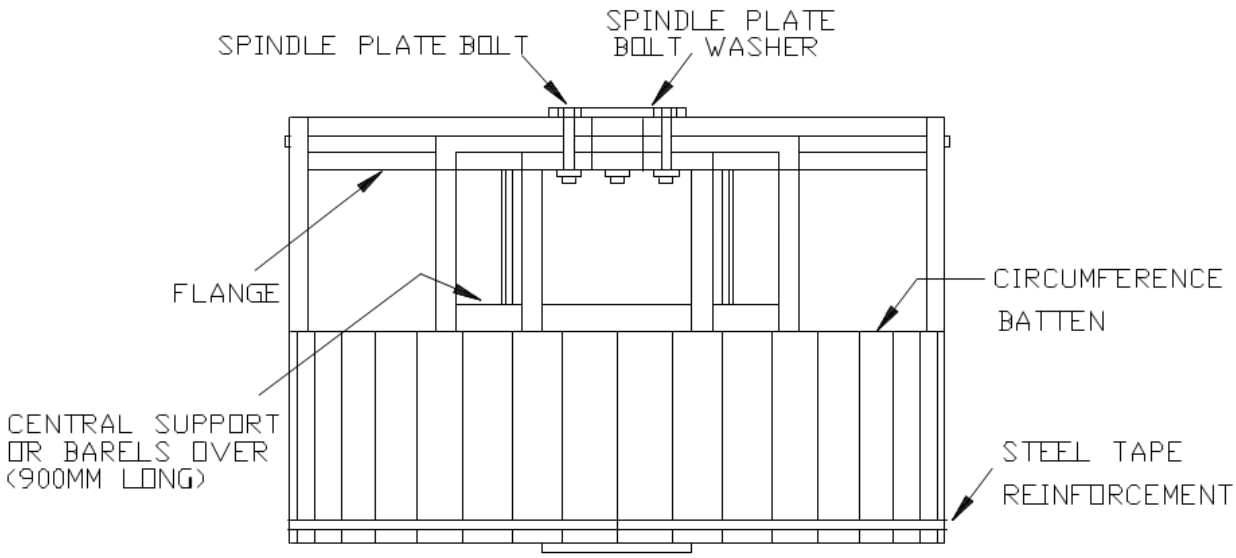
1000 Core (MRT)

DME PROLINK Fiber Optic Outdoor Cable, Unarmored, MLT / MRT, Single Mode, Jelly Filled, G652D, PE, Black

Drum Packing and Marking

DME PROLINK's each length of cable will have both ends effective sealed. Each cable drum will be marked to indicate the direction of rotating for reeling of the cable. On both side of the cable drum, required marking will be printed. The minimum barrel diameter of the drums will be 40 times the nominal diameter of the cable. Required letters will be distinctly marked on a weather proof material on both outer sides of the drum flange. The marking plates will be made of a non-corrodible material.





DME PROLINK Fiber Optic Outdoor Cable, Unarmored, MLT / MRT, Single Mode, Jelly Filled, G652D, PE, Black

Color coding of Optical Fiber in Multi Loose Tube / Multi Ribbon Tube

No. of Fiber Per Tube	1	2	3	4	5	6	7	8	9	10	11	12
6 Cores	Blue	Orange	Green	Red	Yellow	Violet						
12 Cores	Blue	Orange	Green	Red	Yellow	Violet	Brown	Black	White	Slate	Aqua	Pink
12 Core (R) *	Blue	Orange	Green	Red	Yellow	Violet	Brown	Black	White	Slate	Aqua	Pink

(R)* : Ribbon fiber (12core)

Part Number

D	1	1	5	x	-	n	t	m	j	p	s	c

x	Pin assigned by ECS
0-9	Inventory Management Index

n	Number of Fiber Core
04 - 1000	4 – 1000 Fiber Core

t	Type
LF	Loose Fiber
RF	Ribbon Fiber

m	Mode
6	OS1
7	OS2

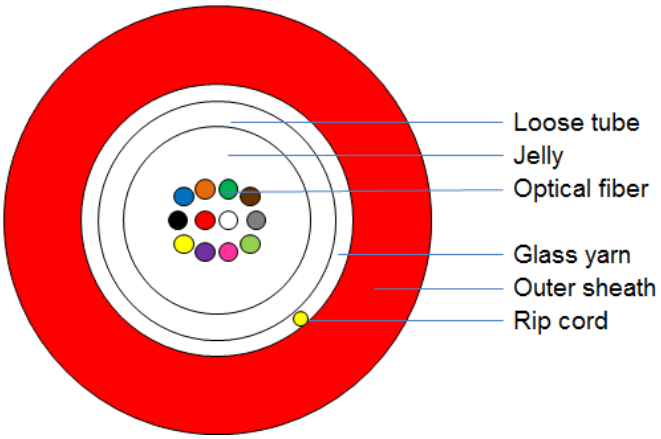
j	Outer Jacket Material
PV	Polyvinyl Chloride
PE	Polyethylene
FRPL	Flame Retardant Polyethylene with LSZH

p	Physical Construction
JF	Jelly Filled

s	Specification
2D	G.652D

c	Color
BK	Black

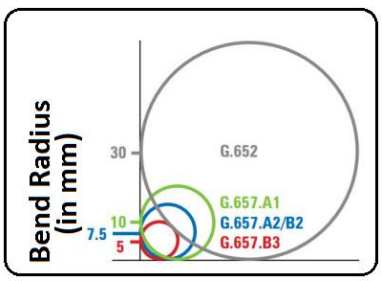
DME PROLINK Fiber Optic Indoor / Outdoor Dielectric Cable, CLT, JF, with Glass Yarn, OS2, G.652D, LSZH



Description

DME PROLINK's Indoor/Outdoor is designed specifically for FTTx applications requiring low to Medium core-counts. The Single-mode FO cable is with G.652D specifications. Central Loose Tube construction with Water blocking yarn reinforcement. The cable is designed in such a way that it is ideal for quick and easy installation.

The Fiber used in *DME PROLINK*'s Fiber Optic cables, are made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.



Features & Benefits

- Fiber Specification G.652D
- LSZH Outer Sheath
- Central Loose Tube filled with Jelly
- Color code scheme: According to EIA/TIA 598
- Water blocking yarns provided on the peripheral for rodent protection
- Ripcord provided for easy stripping
- Complies with IEC 60332-1
- Predictable lifetime of 30 years

The Fiber within FO cable are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G652: Characteristics of a Single-mode optical fiber and cable
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable

DME PROLINK Fiber Optic Indoor / Outdoor Dielectric Cable, CLT, JF, with Glass Yarn, OS2, G.652D, LSZH

Optical Fiber G.652D Specification

Category	Description	Values
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km
	Attenuation @1550 nm	≤0.22dB/km
	Zero Dispersion Slope	≤0.092 ps/nm²·km
	Dispersion in the range 1288 to 1339nm:	≤3.5ps/ (nm*km)
	Dispersion in the range 1530 to 1565nm:	≤18ps/ (nm*km)
	Polarization mode dispersion link value:	≤0.2ps/√km
	Cable Cutoff Wavelength (λcc)	≤1260 nm
	Macro bending Loss (100 turns; Φ30 mm) @1550 nm (100 turns; Φ30 mm) @1625 nm	 ≤ 0.05 dB ≤ 0.05 dB
	Mode Field Diameter @1310 nm	9.2 ± 0.4μm
	Mode Field Diameter @1550 nm	10.4 ± 0.8μm
Dimensional Specifications	Cladding Diameter	125 ±1μm
	Cladding non circularity	≤1.0%
	Core/cladding concentricity error	≤0.6μm
Environmental Specification	Operation temperature range	-20℃ to + 70℃
	Installation temperature range	0℃ to + 60℃
	Transport and storage temperature range	-20℃ to + 70℃

Color coding for Optical Fiber

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

13	14	15	16	17	18	19	20	21	22	23	24
Blue S100	Orange S100	Green S100	Brown S100	Gray S100	White S100	Red S100	Black S100	Yellow S100	Purple S100	Pink S100	Aqua S100

Note: “S100” means Black Circle at an interval of 100mm

Factory Test List for Fiber Optic Cable*

Tension Loading Test

Test Standard	IEC 60794-1-2 E1
Sample Length	No less than 50 meters
Load	Short term tension
Duration time	1 minute
Test results	Fiber strain ≤ 0.6%
	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Crush Test

Test Standard	IEC 60794-1-2 E3
Load	Short Term crush
Duration time	1 minute
Test results	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Torsion Resistance Test

Test Standard	IEC 60794-1-2 E7
Sample Length	1m
Twist angle	±180°
Number of Cycles	10
Test results	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Impact Test

Test Standard	IEC 60794-1-2 E4
Points of impact	3
No. of Times per point	1
Impact Energy	5J (Striking Surface radius: 300mm)
Test results	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

DME PROLINK Fiber Optic Indoor / Outdoor Dielectric Cable, CLT, JF, with Glass Yarn, OS2, G.652D, LSZH

Physical / Mechanical Characteristics of Fiber Optic Cable

Physical	**Fiber count**	**2/4/8/12**	**24**
	Cable OD (mm ±5%)	**7.4**	**7.9**
	Cable weight (kg/km ± 10%)	**65**	**73**
Mechanical	Short Term Tension	**1000N**	
	Short Term Crush	1000N/100mm	
	Minimal installation bending radius (Dynamic)	20 x OD	
	Minimal operation bending radius (Static)	10 x OD	

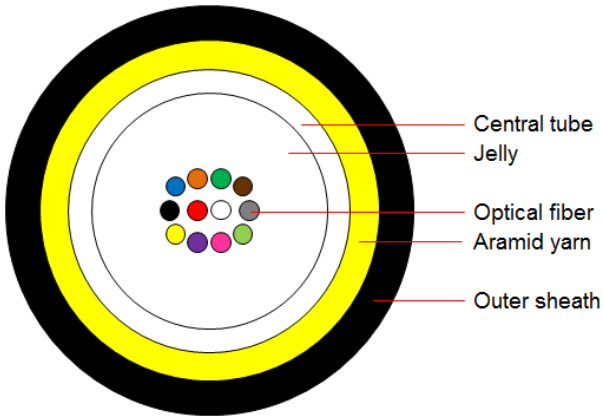
Routine Factory tests of single-mode fiber

Parameters	Test Standards
Mode field diameter	IEC 60793-1-45.
Mode field Core/clad concentricity	IEC 60793-1-20
Cladding diameter	IEC 60793-1-20
Cladding non-circularity	IEC 60793-1-20
Attenuation coefficient	IEC 60793-1-40
Chromatic dispersion	IEC 60793-1-42
Cable cut-off wavelength	IEC 60793-1-44

Part Number

D11811-027LSJF2DRD	**Fiber Optic Indoor/Outdoor Dielectric Cable, 2 Core, CLT, Jelly Filled, with Glass yarn, Single-mode OS2, LSZH, G.652D, Red**
D11811-047LSJF2DRD	**Fiber Optic Indoor/Outdoor Dielectric Cable, 4 Core, CLT, Jelly Filled, with Glass yarn, Single-mode OS2, LSZH, G.652D, Red**
D11811-087LSJF2DRD	**Fiber Optic Indoor/Outdoor Dielectric Cable, 8 Core, CLT, Jelly Filled, with Glass yarn, Single-mode OS2, LSZH, G.652D, Red**
D11811-127LSJF2DRD	**Fiber Optic Indoor/Outdoor Dielectric Cable, 12 Core, CLT, Jelly Filled, with Glass yarn, Single-mode OS2, LSZH, G.652D, Red**
D11811-247LSJF2DRD	**Fiber Optic Indoor/Outdoor Dielectric Cable, 24 Core, CLT, Jelly Filled, with Glass yarn, Single-mode OS2, LSZH, G.652D, Red**

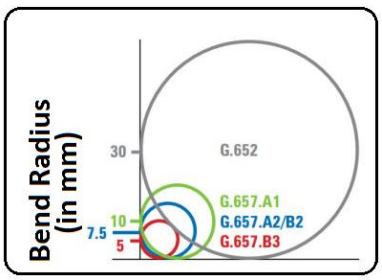
DME PROLINK Fiber Optic Air Blown Micro Cable, CT, OS2, G.652D, HDPE



Description

DME PROLINK's Micro cable is designed specifically for Air blown applications requiring low core-counts. The Single-mode FO cable comes in G.652D specifications. Circular Central Tube construction with Aramid yarn strength member at the peripheral will make this cable ideal for installation in Micro ducts using Air blowing equipment using air pressure up to 15 Bar.

The Fiber used in *DME PROLINK*'s Fiber Optic cables, are made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.



Features & Benefits

- Available as G.652D
- HDPE Outer Sheath
- Central Tube has natural color
- Tube is filled with Jelly
- Color code scheme: According to EIA/TIA 598
- Water blocking aramid yarns at the peripheral to bind the cable core
- Predictable lifetime of 30 years

The Fiber within FO cable are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G652: Characteristics of a Single-mode optical fiber and cable
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable

DME PROLINK Fiber Optic Air Blown Micro Cable, CT, OS2, G.652D, HDPE

Optical Fiber G.652D Specification

Category	Description	Values
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km
	Attenuation @1550 nm	≤0.22dB/km
	Zero Dispersion Slope	≤0.092 ps/nm²·km
	Dispersion in the range 1288 to 1339nm:	≤3.5ps/ (nm*km)
	Dispersion in the range 1530 to 1565nm:	≤18ps/ (nm*km)
	Polarization mode dispersion link value:	≤0.2ps/√km
	Cable Cutoff Wavelength (λcc)	≤1260 nm
	Macro bending Loss (100 turns; Φ30 mm) @1550 nm (100 turns; Φ30 mm) @1625 nm	 ≤ 0.05 dB ≤ 0.05 dB
	Mode Field Diameter @1310 nm	9.2 ± 0.4μm
	Mode Field Diameter @1550 nm	10.4 ± 0.8μm
Dimensional Specifications	Cladding Diameter	125 ±1μm
	Cladding non circularity	≤1.0%
	Core/cladding concentricity error	≤0.6μm
Environmental Specification	Operation temperature range	-10℃ to + 70℃
	Installation temperature range	-10℃ to + 70℃
	Transport and storage temperature range	-10℃ to + 70℃

Color coding of Optical Fiber in Central Tube

No. of Fiber Per Tube	1	2	3	4	5	6	7	8	9	10	11	12
2 Cores	Blue	Orange										
4 Cores	Blue	Orange	Green	Brown								
8 Cores	Blue	Orange	Green	Brown	Gray	White	Red	Black				
12 Cores	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

DME PROLINK Fiber Optic Air Blown Micro Cable, CT, OS2, G.652D, HDPE

Factory Test List for Fiber Optic Cable*

Tension Loading Test

Test Standard	IEC 60794-1-2 E1
Sample Length	No less than 50 meters
Load	Short Term Tension
Duration time	1 minute
Test results	Fiber strain ≤ 0.6%
	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Crush Test

Test Standard	IEC 60794-1-2 E3
Load	Short Term crush
Duration time	1 minute
Test number	1
Test results	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Torsion Resistance Test

Test Standard	IEC 60794-1-2 E7
Sample Length	1m
Twist angle	±90°
Test results	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Temperature Cycling Test

Test Standard	IEC 60794-1-2 F1
Temperature Range	-10°C to +60°C
Time of each step	12H
Number of cycles	2
Test results	Additional attenuation ≤ 0.1dB/km @1550nm
	No damage to outer jacket and inner elements

DME PROLINK Fiber Optic Air Blown Micro Cable, CT, OS2, G.652D, HDPE

Physical / Mechanical Characteristics of Fiber Optic Cable

Physical	**Fiber count**	**2**	**4**	**8**	**12**
	Strength member	Aramid yarns			
	Cable OD	2.8mm ± 5%			
	Cable weight	7 kg/km ± 10%			
Mechanical	Short Term Tension	1*W			
	Crush resistance	100N/100mm			
	Minimal installation bending radius (Dynamic)	20 x OD			
	Minimal operation bending radius (Static)	10 x OD			

Note: Mechanical sizes are nominal values. “W” means cable weight per km

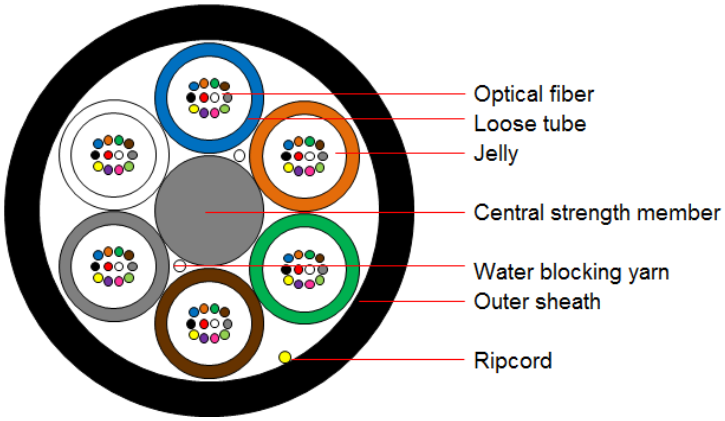
Routine Factory tests of single-mode fiber

Parameters	Test Standards
Mode field diameter	IEC 60793-1-45.
Mode field Core/clad concentricity	IEC 60793-1-20
Cladding diameter	IEC 60793-1-20
Cladding non-circularity	IEC 60793-1-20
Attenuation coefficient	IEC 60793-1-40
Chromatic dispersion	IEC 60793-1-42
Cable cut-off wavelength	IEC 60793-1-44

Part Number

D111211-027PEJF2DBK	**Fiber Optic Air Blown Micro Cable, 2 Core, Central Tube, Aramid Yarn/Jelly Filled Single-mode OS2, G.652D, HDPE, Black**
D111211-047PEJF2DBK	**Fiber Optic Air Blown Micro Cable, 4 Core, Central Tube, Aramid Yarn/Jelly Filled Single-mode OS2, G.652D, HDPE, Black**
D111211-087PEJF2DBK	**Fiber Optic Air Blown Micro Cable, 8 Core, Central Tube, Aramid Yarn/Jelly Filled Single-mode OS2, G.652D, HDPE, Black**
D111211-127PEJF2DBK	**Fiber Optic Air Blown Micro Cable, 12 Core, Central Tube, Aramid Yarn/Jelly Filled Single-mode OS2, G.652D, HDPE, Black**

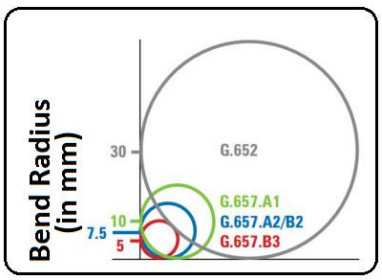
DME PROLINK Fiber Optic Air Blown Mini Cable, MLT, OS2, G.652D, HDPE



Description

DME PROLINK's Mini cable is designed specifically for Air blown applications requiring low to higher core-counts. The Single-mode FO cable comes in G.652D specifications. Mini Multi Loose Tube construction with Water blocking yarn and Central strength member will make this cable ideal for installation in Mini ducts using Air blowing equipment using air pressure up to 15 Bar.

The Fiber used in *DME PROLINK*'s Fiber Optic cables, are made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.



Features & Benefits

- Available as G.652D
- HDPE Outer Sheath
- Loose Tubes are filled with Jelly
- Non-metallic Central Strength Member
- Color code scheme: According to EIA/TIA 598
- Water blocking yarns between tubes
- Ripcord provided for easy stripping
- Predictable lifetime of 30 years

The Fiber within FO cable are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G652: Characteristics of a Single-mode optical fiber and cable
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable

DME PROLINK Fiber Optic Air Blown Mini Cable, MLT, OS2, G.652D, HDPE

Optical Fiber G.652D Specification

Category	Description	Values
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km
	Attenuation @1550 nm	≤0.22dB/km
	Zero Dispersion Slope	≤0.092 ps/nm²·km
	Dispersion in the range 1288 to 1339nm:	≤3.5ps/ (nm*km)
	Dispersion in the range 1530 to 1565nm:	≤18ps/ (nm*km)
	Polarization mode dispersion link value:	≤0.2ps/√km
	Cable Cutoff Wavelength (λcc)	≤1260 nm
	Macro bending Loss (100 turns; Φ30 mm) @1550 nm (100 turns; Φ30 mm) @1625 nm	 ≤ 0.05 dB ≤ 0.05 dB
	Mode Field Diameter @1310 nm	9.2 ± 0.4μm
	Mode Field Diameter @1550 nm	10.4 ± 0.8μm
Dimensional Specifications	Cladding Diameter	125 ±1μm
	Cladding non circularity	≤1.0%
	Core/cladding concentricity error	≤0.6μm
Environmental Specification	Operation temperature range	-10℃ to + 60℃
	Installation temperature range	-10℃ to + 60℃
	Transport and storage temperature range	-20℃ to + 70℃

Color coding for Optical Fiber

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

Color coding for Loose Tubes

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

DME PROLINK Fiber Optic Air Blown Mini Cable, MLT, OS2, G.652D, HDPE

Factory Test List for Fiber Optic Cable*

Tension Loading Test

Test Standard	IEC 60794-1-2 E1
Sample Length	No less than 50 meters
Load	1KM cable weight
Duration time	1 minute
Test results	Fiber strain ≤ 0.6%
	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Crush Test

Test Standard	IEC 60794-1-2 E3
Load	Short Term crush
Duration time	5 minute
Test results	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Torsion Resistance Test

Test Standard	IEC 60794-1-2 E7
Sample Length	2m
Twist angle	±180°
Number of Cycles	5
Test results	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Temperature Cycling Test

Test Standard	IEC 60794-1-2 F1
Temperature Range	-10°C to +60°C
Time of each step	12H
Number of cycles	2
Test results	Additional attenuation ≤ 0.15 dB/km @1550nm
	No damage to outer jacket and inner elements

DME PROLINK Fiber Optic Air Blown Mini Cable, MLT, OS2, G.652D, HDPE

Factory Test List for Fiber Optic Cable*

Impact Test

Test Standard	IEC 60794-1-2 E4
Points of impact	3
No. of Times per point	1
Impact Energy	1J (with 300mm striking radius) or 0.3J (with 10 striking radius)
Test results	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Repeated Bending Test

Test Standard	IEC 60794-1-2 E6
Bending Radius	The larger of two values: 300 mm or 40x cable diameter
Number of Cycles	25
Test results	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Cable Bend Test

Test Standard	IEC 60794-1-2 E11
Diameter of Mandrel	20 x OD
Number of turns	4
Number of Cycles	3
Test results	Additional attenuation ≤ 0.1dB @1550nm
	No damage to outer jacket and inner elements

Water Penetration Test

Test Standard	IEC 60794-1-2 F5B
Height of water	3m
Sample length	1m
Time	24H
Test results	No water leak from the cable core of the opposite end

DME PROLINK Fiber Optic Air Blown Mini Cable, MLT, OS2, G.652D, HDPE

Physical / Mechanical Characteristics of Fiber Optic Cable

Physical	**Fiber count**	**24/36/48**	**72**	**96**	**144**
	No. of Fiber per tube	**12**	**12**	**12**	**12**
	No. of Elements (Tubes and Filler rods)	**6**	**6**	**8**	**12**
	Cable OD (mm ±5%)	**6.5**	**6.5**	**6.2**	**7.9**
	Cable weight (kg/km ± 10%)	**37**	**40**	**36**	**58**
Mechanical	Short Term Tension	**300**		**400**	**500**
	Short Term Crush	500N/10mm			
	Minimal installation bending radius (Dynamic)	20 x OD			
	Minimal operation bending radius (Static)	15 x OD			

Routine Factory tests of single-mode fiber

Parameters	Test Standards
Mode field diameter	IEC 60793-1-45.
Mode field Core/clad concentricity	IEC 60793-1-20
Cladding diameter	IEC 60793-1-20
Cladding non-circularity	IEC 60793-1-20
Attenuation coefficient	IEC 60793-1-40
Chromatic dispersion	IEC 60793-1-42
Cable cut-off wavelength	IEC 60793-1-44

Part Number

D111211-247PEJF2DBK	**Fiber Optic Air Blown Mini Cable, 24 Core, MLT, Jelly Filled Single-mode OS2, G.652D, HDPE, Black**
D111211-367PEJF2DBK	**Fiber Optic Air Blown Mini Cable, 36 Core, MLT, Jelly Filled Single-mode OS2, G.652D, HDPE, Black**
D111211-727PEJF2DBK	**Fiber Optic Air Blown Mini Cable, 72 Core, MLT, Jelly Filled Single-mode OS2, G.652D, HDPE, Black**
D111211-967PEJF2DBK	**Fiber Optic Air Blown Mini Cable, 96 Core, MLT, Jelly Filled Single-mode OS2, G.652D, HDPE, Black**
D111211-1447PEJF2DBK	**Fiber Optic Air Blown Mini Cable, 144 Core, MLT, Jelly Filled Single-mode OS2, G.652D, HDPE, Black**

DME PROLINK Fiber Optic Patch Panel 19” Rack Mount

Description

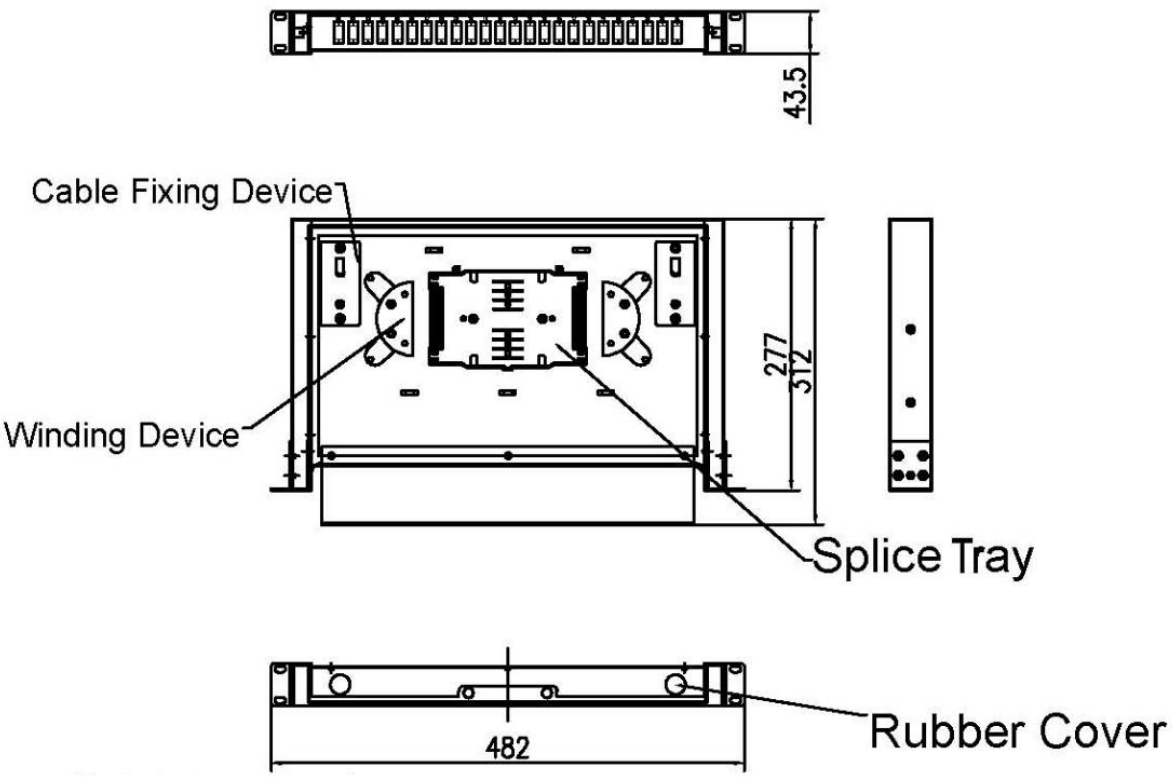
DME PROLINK provides 19” Rack-mountable Fiber Optic Patch Panel for splicing and/or termination of optical fibers in an indoor environment. Also, loaded type available with Multimode or Single-mode pigtails, splice accessories and adapters. The solution provides an optical channel that is guaranteed to be compliant with the ISO 11801 International Standard for Structured Cabling. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

Features & Benefits

- 19” Rack-mountable; 1RU
- Easy to install.
- Comes Unloaded (Capacity 24 Ports)
- With Plastic Sliding Rail- Sliding Out Design
- Cable Fixing and Grounding Devices installed within Patch Panel
- The body made of cold-rolled steel. The steel plate thickness is 1.5mm, molded by numerical controlling. Surface treated with static plastic spray.
- Internal cable management
- Accommodates Splicing and/or Direct Termination
- Complies with IEC 60068
- Accepts *DME PROLINK* compliant adapters/couplers.
- Panels can be ordered configured.
- 25 Years System Warranty

DME PROLINK Fiber Optic Patch Panel 19" Rack Mount

Technical requirement:
1.All sharp edges are blunted;
2.When assembled, to make sure the surface smooth, no scratch and spray defect;
3.All dimensions are in mm.



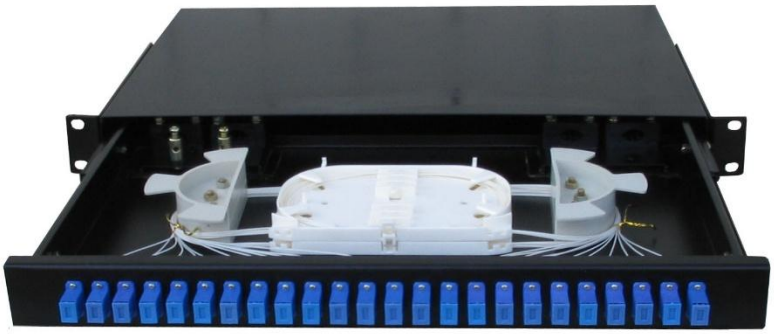
Technical Specification

- Voltage Resistance≥3000VDC
- Insulating resistance between the metal parts of the body and grounding fitting: ≥ 2×10^4 mΩ/500V (DC).
- Product Dimension: 483mm (W) X44mm (H) X280mm (D)for 24D.

Part Number

D121x-241EMN000BK	Fiber Optic Patch Panel, 24 Port, 1RU, No Adapters, No Pigtails, With Splice Tray, Black (Empty)
D121x-241EMN000GY	Fiber Optic Patch Panel, 24 Port, 1RU, No Adapters, No Pigtails, With Splice Tray, Grey (Empty)

DME PROLINK Fiber Optic Patch Panel 19” Rack Mount, Loaded (SC/APC)



Description

DME PROLINK provides 19” Rack-mountable Fiber Optic Patch Panel for splicing and/or termination of optical fibers in an indoor environment. Also, loaded type available with Multimode or Single-mode pigtails, splice accessories and adapters. The solution provides an optical channel that is guaranteed to be compliant with the ISO 11801 International Standard for Structured Cabling. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

Features & Benefits

- 19” Rack-mountable; 1RU, 2RU, 3U or 4U
- Easy to install.
- Comes in Unloaded and loaded versions
- With Plastic Sliding Rail- Sliding Out Design
- Cable Fixing and Grounding Devices installed within Patch Panel
- Internal cable management
- Accommodates Splicing and/or Direct Termination
- Accepts *DME PROLINK* compliant adapters/couplers.
- Panels can be ordered configured.
- 25 Years System Warranty

DME PROLINK Fiber Optic Patch Panel 19" Rack Mount, Loaded (SC/APC)

Technical Specification

- Insulating resistance between the metal parts of the body and grounding fitting: ≥ 2×10^4 MΩ/500VDC.
- Product Dimension for 1U: 483mm (W) X 1U (H) X331mm (D)
- Product Dimension for 2U: 483mm (W) X 2U (H) X331mm (D)
- Working Temperature: Indoor Type : -5℃ to +40℃; Outdoor Type: -25℃ to +55℃
- Storage Temperature: -25℃ to +55℃
- Relative Humidity ≤ 95%
- Atmospheric Pressure: 70kpa to 106kpa
- Dielectric Strength: Between Frame and Grounding Protection > 15KV/1min, no breakdown
- Optical Fiber cable storage radius is > 45mm

Technical Characteristics of SC/APC Adapter

Fiber Type	Single mode
Adapter Type	SC
Insertion Loss (dB)	≤ 0.5
Repeatability (dB)	≤ 0.5
Interchangeability (dB)	≤ 0.5
Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-25°C to +70°C
Durability	> 500 times
Standard	IEC 601754-4

Technical Characteristics of SC/APC Connectors

Fiber Type	Single mode OS2
Connector Type	SC
Connector Surface	APC (Angled Physical Contact)
Insertion Loss (dB)	≤ 0.3
Return Loss (dB)	≥ 60
Operating Temperature Range	-25°C to +70°C
Durability	> 500 times
Standard	IEC 601754-20

DME PROLINK Fiber Optic Patch Panel 19" Rack Mount, Loaded (SC/APC)

The Fiber Patch Panels are designed, Manufactured and tested according to below standards:

- YD/T 1272.3-2005: Optical Fiber Connector Part 3: Type SC
- YD/T 1272.1-2003: Optical Fiber Connector Part 1: Type LC
- YD/T 1272.4-2007: Optical Fiber Connector Part 4: Type FC
- YD/T 925-2009: Optical Fiber cable Terminal Case
- YD/T 1198-2002: Technical requirements of the ferrule of the optical fiber connector
- YD/T 1258.2-2003: A series of indoor optical cable: Simplex optical cable

Part Number

D12111-121SCA712S12B	Fiber Optic Patch Panel, 12 Port, 1RU, 12 SC/APC Simplex Adapters, 12 SC/APC Pigtails (G.652D), with Splice Tray, Black
D12111-241SCA724S24B	Fiber Optic Patch Panel, 24 Port, 1RU, 24 SC/APC Simplex Adapters, 24 SC/APC Pigtails (G.652D), with Splice Tray, Black
D12111-362SCA736S36B	Fiber Optic Patch Panel, 36 Port, 2RU, 36 SC/APC Simplex Adapters, 36 SC/APC Pigtails (G.652D), with Splice Tray, Black

DME PROLINK Fiber Optic Splitter Panel, 19” Rack Mount, LC/APC, 2:32

Note: Image only for reference. The Splitter Panel actually comes with Front Panel Guide

Description

DME PROLINK’s Splitter panel is a vital component in any GPON/FTTx infrastructure. Designed in conjunction with leading Service Providers This compact, integrated panel offers pre-connectorised presentation of the input and output ports on the front of the panel. Each port is clearly labeled. The splitter consist of waveguides chip, optical fiber array and Pigtails. The Fiber used in *DME PROLINK*’s splitter panel, is made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating.

DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

DME PROLINK Fiber Optic Splitter Panel, 19" Rack Mount, LC/APC, 2:32

Features & Benefits

- Installed in 19" Standard Rack
- Small Size and aesthetic appearance.
- Quick Installation, Reliable Performance and Stable.
- Wide Operating wavelength range
- Good uniformity with respect to PON application
- Cassette Type Splitter - 2:32
- The PLC Splitter comes with pre-connectorised LC/APC connectors. The end faces are still curved but are angled at an industry standard 8°. This maintains a tight connection, and it reduces back reflection to about -70 dB. APC type connector back reflection does not degrade with repeated mating.
- Outer Sheath of Pigtail is PVC
- Fiber Type is G.657A1
- 25 Years System Warranty
- Length of Pigtail is 0.5m
- Diameter for Fiber cable of Pigtail is 2.0mm
- Product Dimension: 430mm (W) x 200mm (D) x 43.5mm (H)

The Fiber Optic Splitter Panel are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G652: Characteristics of a Single-mode optical fiber and cable
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
- ITU-T G.657: Characteristics of a bending-loss insensitive single-mode optical fiber
- YD/T 2000.1-2009: Integrated optical path devices based on planar light wave circuit Part 1: Optical power splitter based on PLC technology
- IEC61300-2-5: Fiber optic interconnecting devices and passive components-Basic test and measurement procedures-Part 2-5:Tests–Torsion
- IEC61300-2-17: Fiber optic interconnecting devices and passive components – Basic test and measurement procedures–Part 2-17: Tests –Cold
- IEC61300-2-22: Fiber optic interconnecting devices and passive components-Basic test and measurement procedures-Part 2-22: Tests–Change of temperature
- IEC61300-3-1: Fiber optic interconnecting devices and passive components-Basic test and measurement procedures–Visual examination
- IEC61300-3-6: Fiber optic interconnecting devices and passive components –Basic test and measurement procedures-Examinations and measurements -Return loss
- IEC61300-3-34: Fiber optic interconnecting devices and passive components –Basic test and measurement procedures-Examinations and measurements–Attenuation of random mated connectors.

DME PROLINK Fiber Optic Splitter Panel, 19” Rack Mount, LC/APC, 2:32

Optical Characteristics of PLC Splitter

Splitter Type	2x32
Channel wavelength (nm)	1260-1650
Insertion Loss (dB)	≤ 17.9
Loss Uniformity (dB)	≤ 1.5
Return Loss (dB)	≥ 50 (APC)
Polarization Dependent Loss (dB)	≤ 0.3
Directivity (dB)	≥ 55
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-40°C to +85°C

Note
1:Above insertion loss values are measured at indoor temperature, including the connector loss;
2:Insertion loss of PLC splitter including adapters, should plus 0.2dB base on above insertion loss;
3:Insertion loss of PLC splitter without connectors, should minus 0.2dB base on above insertion loss.

Technical Characteristics of LC Connector

Fiber Type	Single mode OS2
Connector Type	LC
Connector Surface	APC (Angled Physical Contact)
Insertion Loss (dB)	≤ 0.3
Return Loss (dB)	≥ 60
Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-25°C to +70°C
Durability	> 500 times
Standard	IEC 601754-20

Technical Characteristics of LC Adapter

Fiber Type	Single mode
Adapter Type	LC
Insertion Loss (dB)	≤ 0.20
Repeatability (dB)	≤ 0.20
Interchangeability (dB)	≤ 0.20
Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-25°C to +70°C
Durability	> 500 times
Standard	IEC 601754-20

Factory Tests

Tests	Test Content and Criteria Data
Visual Examination	Be smooth, clean, without oily be soiled, no scar and crack. The whole device is firm, the tail fiber without loosening or with the connector plug is smooth.
Insertion Loss	≤ 0.3dB (Connector)
Return Loss	≥ 60dB (Connector)
Mechanical Durability	Plug and pull out for 500 times, No scratch and meet optical performance
Cold	Temperature：-40℃,-20℃, -10℃.(Choose one according to requirements). Time: 96h. The rate of change of temperature shall not exceed 1 °C/min, averaged over a maximum period of 5 min. Result: no scar and crack.
Torsion	Load: 2N. Twist angle: 180°. Number of cycles: 25
Temperature Cycling	Range:-10℃~+60℃, 5 cycle. Change speed:（1±0.2）℃/min; Result: ΔIL ≤ 0.2dB, ΔRL＜5dB

Tests done with reference to below standards

- IEC 61754-20: Fiber Optic interconnecting devices and passive components – Fiber Optic Connector Interfaces – Part 20: Type LC connector family
- IEC 61300-3-1: Fiber Optic interconnecting devices and passive components – Basic Test and Measurement procedures – Visual Examination
- IEC 61300-2-5: Fiber optic interconnecting devices and passive components – Basic test and measurement procedures- Tests –Torsion
- IEC 61300-2-17: Fiber optic interconnecting devices and passive components – Basic test and measurement procedures –Tests –Cold
- IEC 61300-2-22: Fiber Optic interconnecting devices and passive components – Basic Test and Measurement procedures – Examinations and Measurements – Change of Temperature.
- IEC 61300-3-6: Basic Test and Measurement procedures - Examinations and Measurements - Return loss
- IEC 61300-3-34: Basic Test and Measurement procedures - Examinations and Measurements - Attenuation of random mated connectors
- YDT 2000.1-2009 Integrated optical path devices based on planar lightwave circuit Part 1: Optical power splitter based on PLC technology

Part Number

D1249-LCA232X1	Fiber Optic Splitter Panel, 19" Rack-mount, LC/APC, 2:32 Splitter, 1 Instance

DME PROLINK Fiber Optic Splitter Panel 19" Rack Mount, SC/APC, 2:32

Description

DME PROLINK's Splitter panel is a vital component in any GPoN/FTTx infrastructure. Designed in conjunction with leading Service Providers, this compact, integrated panel offers pre-connectorised presentation of the input and output ports on the front of the panel. Each port is clearly labeled.

The solution provides an optical channel that is guaranteed to be compliant with the ISO 11801 International Standard for Structured Cabling. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

Features & Benefits

- 19" Rack-mountable; 1RU
- Easy to install.
- Comes with Pre-connectorised - SC/APC
- With Plastic Sliding Rail- Sliding Out Design
- 1:32/2:32 Split Capacity or 12 instances of 1:2 Split Capacity
- The body made of cold-rolled steel. The steel plate thickness is 1.5mm, molded by numerical controlling. Surface treated with static plastic spray.
- Internal cable management
- Complies with IEC 60068
- Clear labeling for each port
- 25 Years System Warranty

Test Methods Used

- Telcordia GR-1209-Core (2001) ; IL(CR), RL(CR), Fiber and Cable Retention, Fiber Flex Test
- Telcordia GR-1221-Core (1999); Variable Frequency Vibration Test, Mechanical Shock
- Telcordia GR-1221-Core (2001); Temperature Cycling Test, Low Temperature Storage Test, Cyclic Moisture Resistance Test, High Temperature Storage Test, Thermal Shock Test

Testing Environment:

Temperature: (22.6 ± 1.5)°C

Relative Humidity: (50 ± 14)% R.H

DME PROLINK Fiber Optic Splitter Panel 19” Rack Mount, SC/APC, 2:32

Optical Characteristics of n:32 Splitter

Parameters (2:32 Splitter)	Value
Operating Wavelength (nm)	1260 – 1650
Maximum Insertion Loss (dB)	≤16.38
Uniformity Maximum (dB)	0.59
Polarization Dependent Loss - PDL (dB)	0.05 dB
Return Loss (dB)	≥ 50
Directivity (dB)	≥ 60
Storage Temperature Range	- 40 to 85 ℃
Operating Temperature Range	- 40 to 85 ℃
Connector	SC/APC

Physical Configuration n:32 Splitter Panel

Parameter		Value
Description		2:32 / 1:32 Splitter Panel
Type		Drawer Type Rack Mount 19” 1RU Panel
Dimensions	W x D (mm)	435 x 222mm
	Height (RU)	1RU (44mm)
Tray	Splitter Tray	1:32 or 2:32 SC/APC Splitter included
Adapter	SC/APC	1 or 2 Inputs / 32 Outputs (34 SC/APC Adapters)

Technical Specification

- Voltage Resistance≥3000VDC
- Insulating resistance between the metal parts of the body and grounding fitting: ≥ 2×10^4 mΩ/500V (DC).

Part Number

D1249-SCA232X1	**Fiber Optic Splitter Panel, 19" Rack-mount, SC/APC, 2:32 Splitter, 1 Instance**

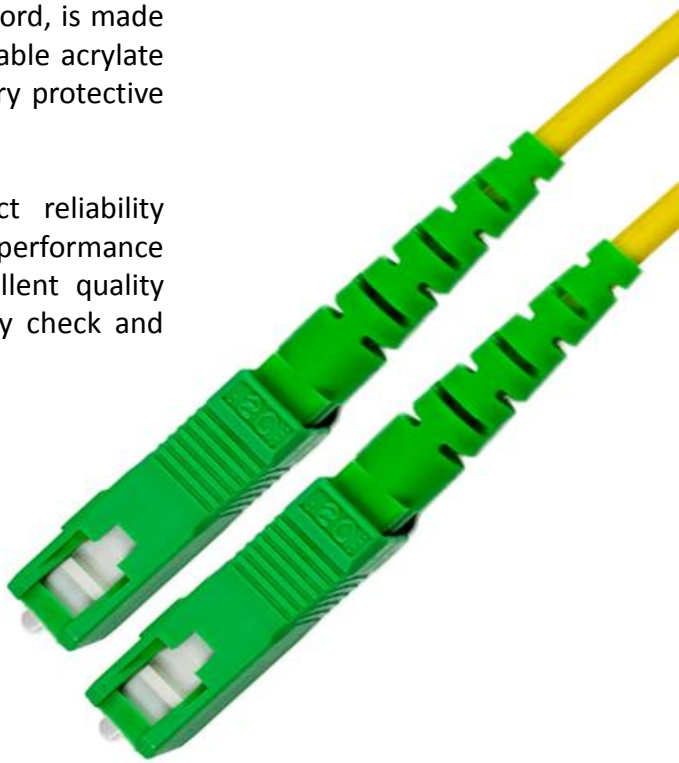
DME PROLINK Fiber Optic Patch cord, Simplex, SC/APC-SC/APC, OS2, G.652D, LSZH

Description

The FO Simplex Patch cord comes with SC/APC connector at both ends. The end faces of the connectors are still curved but are angled at an industry standard 8°. This maintains a tight connection, and it reduces back reflection to about -70 dB.

The Fiber used in *DME PROLINK*'s Fiber Optic Patch cord, is made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating.

DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.



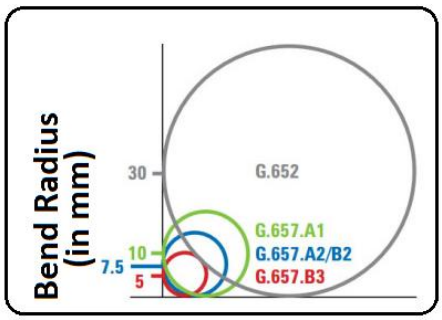
Features & Benefits

- APC type connector back reflection does not degrade with repeated mating.
- Outer Sheath is Low Smoke Zero Halogen
- G.652D
- 25 Years System Warranty
- Length of Patch cords: 1m, 1.5m, 2m, 3m, 5m, 10m, 15m, 20m, 30m
- FO patch cord comes in Cable Diameter with either 2.0mm or 3.0mm

DME PROLINK Fiber Optic Patch cord, Simplex, SC/APC-SC/APC, OS2, G.652D, LSZH

The Fiber within FO Patch cord are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G652: Characteristics of a Single-mode optical fiber and cable
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable



The connector within FO Patch cord are designed, Manufactured and tested according to below standards:

- IEC 61300-1: Basic Test and Measurement procedures – Visual Examination
- IEC 61754: Fiber Optic Connector Interfaces
- IEC 61300-3-6: Basic Test and Measurement procedures - Examinations and Measurements - Return loss
- IEC 61300-3-34: Basic Test and Measurement procedures - Examinations and Measurements - Attenuation of random mated connectors

Technical Characteristics of Connectors

Fiber Type	Single mode OS2
Connector Type	SC
Connector Surface	APC (Angled Physical Contact)
Insertion Loss (dB)	≤ 0.3
Return Loss (dB)	≥ 60
Operating Temperature Range	-25°C to +70°C
Durability	> 500 times
Standard	IEC 601754-4

DME PROLINK
CONNECTING THE GLOBE

DME PROLINK Fiber Optic Patch cord, Simplex, SC/APC-SC/APC, OS2, G.652D, LSZH

Optical Fiber G.652D Specification

Category	Description	Values	
		Before Cable	After Cable
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km	≤0.36dB/km
	Attenuation @1383 nm (After aging hydrogenation)	≤0.34dB/km	≤0.35dB/km
	Attenuation @1550 nm	≤0.21 dB/km	≤0.22dB/km
	Attenuation @1625 nm	≤0.23 dB/km	≤0.25dB/km
	Fiber irregularities point and whole length @1310 &1550nm	≤0.05dB	
	Attenuation inhomogeneity @1310 nm & 1550 nm	≤0.05dB	
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	PMD Link value (M=20cables Q=0.01%)	0.1ps/√km	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Mode Field Diameter @1310 nm	8.6 ± 0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	245 ± 7μm	
	Coating non circularity	≤ 6%	
	Cladding / coating concentricity error	≤12μm	
	Core/clad concentricity error	≤0.5μm	
	Fiber curl radius	≥4m	
Mechanical Specifications	Proof stress	≥1.05%	
	Fatigue Resistance Parameter (Nd)	≥22	
	Peak Coating Strip Force	1.0~8.9N	
Environmental Specification	Fiber temperature dependence (-60℃ to +85℃)	≤0.05dB/km	
	Fiber temperature and humidity (+85 ± 2℃, 85% R.H. for 30 days)	≤0.05dB/km	
	Heat Aging Induced Attenuation(85 ± 2℃,for 30 days)	≤0.05dB/km	
	Water Immersion Induced (23 ± 2℃, for 30 days)	≤0.05dB/km	

DME PROLINK Fiber Optic Patch cord, Simplex, SC/APC-SC/APC, OS2, G.652D, LSZH

Factory Tests

Tests	Criteria Data
Appearance	Connector surface is smooth, no burr, no scratch, color uniformity.
Insertion Loss	≤ 0.3dB
Return Loss	≥65dB
Mechanical Durability	Plug and pull out for 500 times, No scratch and meet optical performance
Temperature Cycling	-10℃~60℃5 cycle ; ΔIL≤0.2dB,ΔRL＜5dB,

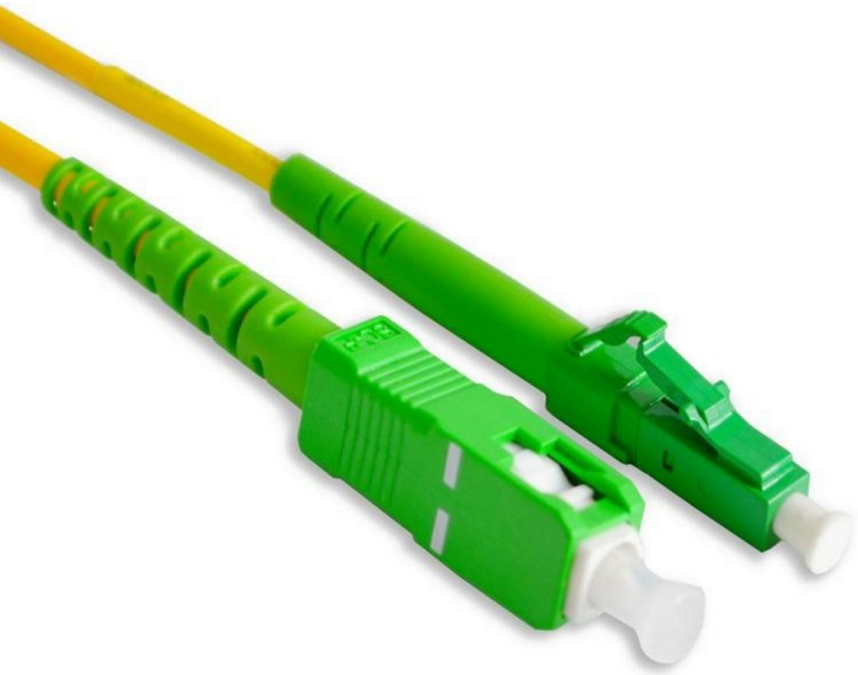
Tests done with reference to below standards

- IEC 61754-4: Fiber Optic interconnecting devices and passive components – Fiber Optic Connector Interfaces – Part 4-1: Type SC connector family
- IEC 61300-3-1: Fiber Optic interconnecting devices and passive components – Basic Test and Measurement procedures – Visual Examination
- IEC 61300-3-6: Basic Test and Measurement procedures - Examinations and Measurements - Return loss
- IEC 61300-3-34: Basic Test and Measurement procedures - Examinations and Measurements - Attenuation of random mated connectors
- IEC 61300-2-22: Fiber Optic interconnecting devices and passive components – Basic Test and Measurement procedures – Examinations and Measurements – Change of Temperature.

Part Number

D131x-SCASCA712L2DYW	Fiber Optic Patch Cord, Simplex, SC/APC, SC/APC, Single-mode OS2, 1m, 2.0mm, LSZH, G.652D, Yellow
D131x-SCASCA732L2DYW	Fiber Optic Patch Cord, Simplex, SC/APC, SC/APC, Single-mode OS2, 3m, 2.0mm, LSZH, G.652D, Yellow

DME PROLINK Fiber Optic Patch cord, SC/APC-LC/APC, OS2, G.657A2, LSZH



Description

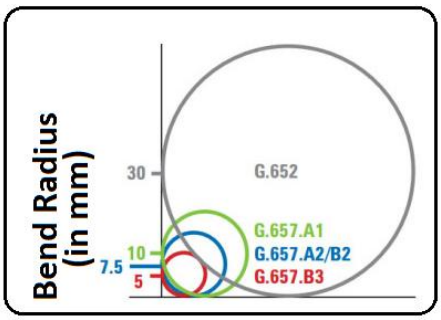
The Fiber used in *DME PROLINK*'s Fiber Optic Patch cord, is made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

Features & Benefits

- The FO Simplex Patch cord comes with SC/APC connector at one end and LC/APC connector at the other end. The end faces of the connectors are still curved but are angled at an industry standard 8°. This maintains a tight connection, and it reduces back reflection to about -70 dB.
- APC type connector back reflection does not degrade with repeated mating.
- Outer Sheath is Low Smoke Zero Halogen
- G.657A2
- Length of Patch cord: 1m, 1.5m, 2m, 3m, 5m, 10m, 15m, 20m, 30m
- FO patch cord comes in Cable Diameter with either 2.0mm or 3.0mm
- 25 Years System Warranty

The Fiber within FO Patch cord are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables-Sectional Specification
- ITU-T G652: Characteristics of a Single-mode optical fiber and cable
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
- ITU-T G.657: Characteristics of a bending-loss insensitive single-mode optical fiber



DME PROLINK Fiber Optic Patch cord, SC/APC-LC/APC, OS2, G.657A2, LSZH

The connector within FO Patch cord are designed, Manufactured and tested according to below standards:

- IEC 61300-1: Basic Test and Measurement procedures – Visual Examination
- IEC 61754: Fiber Optic Connector Interfaces
- IEC 61300-3-6: Basic Test and Measurement procedures - Examinations and Measurements - Return loss
- IEC 61300-3-34: Basic Test and Measurement procedures - Examinations and Measurements - Attenuation of random mated connectors

Technical Characteristics of Connectors

Fiber Type	Single mode OS2	
Connector Type	SC	LC
Connector Surface	APC (Angled Physical Contact)	
Insertion Loss (dB)	≤ 0.3	≤ 0.3
Return Loss (dB)	≥ 65	≥ 65
Operating Temperature Range	-25°C to +70°C	
Durability	> 500 times	
Standard	IEC 601754-4	IEC 601754-20

Optical Fiber G.657A2 Specification

Category	Description	Values	
		Before Cable	After Cable
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km	≤0.36dB/km
	Attenuation @1383 nm (After aging hydrogenation)	≤0.34dB/km	≤0.35dB/km
	Attenuation @1550 nm	≤0.21 dB/km	≤0.22dB/km
	Attenuation @1625 nm	≤0.23 dB/km	≤0.25dB/km
	Fiber irregularities point and whole length @1310 &1550nm	≤0.05dB	
	Attenuation inhomogeneity @1310 nm & 1550 nm	≤0.05dB	
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	PMD Link value (M=20cables Q=0.01%)	0.1ps/√km	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Macro bending Loss (10 turns; Φ30 mm) @1550 nm (10 turns; Φ30 mm) @1625 nm (1 turns; Φ20 mm) @1550 nm (1 turns; Φ20 mm) @1625 nm (1 turns; Φ15 mm) @1550 nm (1 turns; Φ15 mm) @1625 nm	 ≤ 0.03 dB ≤ 0.10 dB ≤ 0.10 dB ≤ 0.20 dB ≤ 0.50 dB ≤ 1.00 dB	
	Mode Field Diameter @1310 nm	8.6 ± 0.4μm	

DME PROLINK Fiber Optic Patch cord, SC/APC-LC/APC, OS2, G.657A2, LSZH

Specification

Category	Description	Values
Dimensional Specifications	Cladding Diameter	125 ±1μm
	Cladding non circularity	≤1.0%
	Coating diameter	245 ± 7μm
	Coating non circularity	≤ 6%
	Cladding / coating concentricity error	≤12μm
	Core/clad concentricity error	≤0.5μm
	Fiber curl radius	≥4m
Mechanical Specifications	Proof stress	≥1.05%
	Fatigue Resistance Parameter (Nd)	≥22
	Peak Coating Strip Force	1.0~8.9N
Environmental Specification	Fiber temperature dependence (-60℃ to +85℃)	≤0.05dB/km
	Fiber temperature and humidity (+85 ± 2℃, 85% R.H. for 30 days)	≤0.05dB/km
	Heat Aging Induced Attenuation(85 ± 2℃,for 30 days)	≤0.05dB/km
	Water Immersion Induced (23 ± 2℃, for 30 days)	≤0.05dB/km

Factory Tests

Tests	Criteria Data
Appearance	Connector surface is smooth, no burr, no scratch, color uniformity.
Insertion Loss	≤ 0.3dB
Return Loss	≥65dB
Mechanical Durability	Plug and pull out for 500 times, No scratch and meet optical performance
Temperature Cycling	-10℃~60℃5 cycle ; ΔIL≤0.2dB,ΔRL＜5dB,

Tests done with reference to below standards

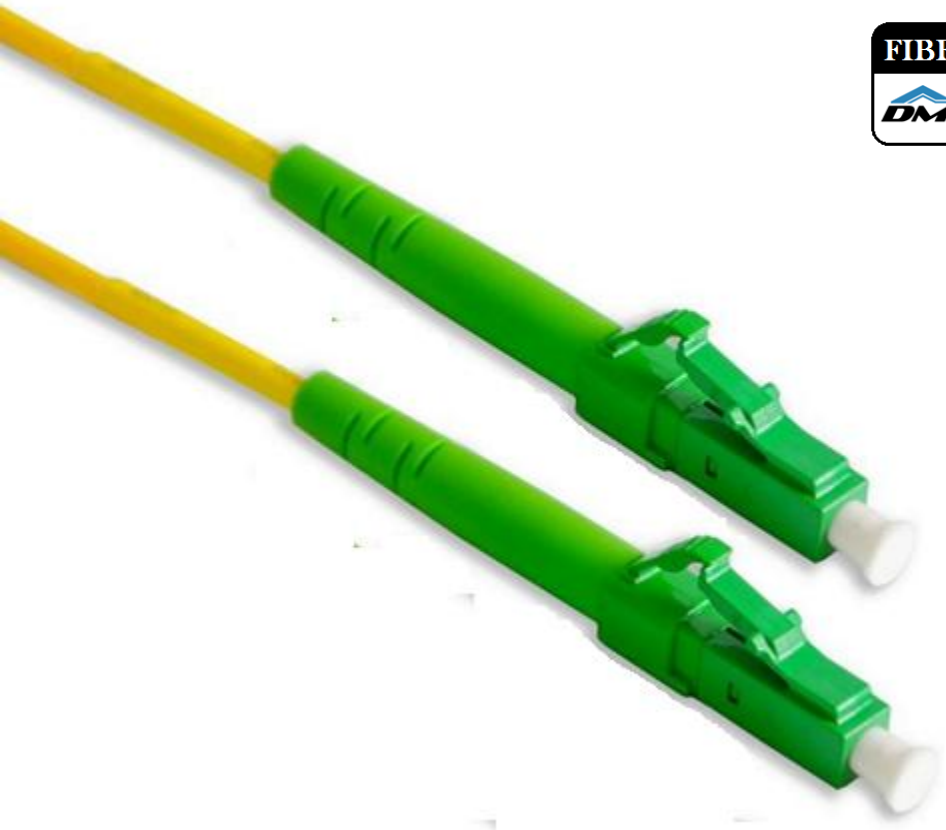
- IEC 61754-4: Fiber Optic interconnecting devices and passive components – Fiber Optic Connector Interfaces – Part 4-1: Type SC connector family
- IEC 61754-20: Fiber Optic interconnecting devices and passive components – Fiber Optic Connector Interfaces – Part 20: Type LC connector family
- IEC 61300-3-1: Fiber Optic interconnecting devices and passive components – Basic Test and Measurement procedures – Visual Examination
- IEC 61300-3-6: Basic Test and Measurement procedures - Examinations and Measurements - Return loss

- IEC 61300-3-34: Basic Test and Measurement procedures - Examinations and Measurements - Attenuation of random mated connectors
- IEC 61300-2-22: Fiber Optic interconnecting devices and passive components – Basic Test and Measurement procedures – Examinations and Measurements – Change of Temperature.

Part Number

D1319-SCALCA712LA2YW	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 1m, 2.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA71H2LA2Y	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 1.5m, 2.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA722LA2YW	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 2m, 2.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA732LA2YW	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 3m, 2.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA752LA2YW	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 5m, 2.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA7102LA2Y	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 10m, 2.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA7152LA2Y	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 15m, 2.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA7202LA2Y	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 20m, 2.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA7302LA2Y	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 30m, 2.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA713LA2YW	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 1m, 3.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA71H3LA2Y	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 1.5m, 3.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA723LA2YW	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 2m, 3.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA733LA2YW	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 3m, 3.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA753LA2YW	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 5m, 3.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA7103LA2Y	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 10m, 3.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA7153LA2Y	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 15m, 3.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA7203LA2Y	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 20m, 3.0mm, LSZH, G.657A2, Yellow
D1319-SCALCA7303LA2Y	Fiber Optic Patch Cord, Simplex, SC/APC, LC/APC, Single-mode OS2, 30m, 3.0mm, LSZH, G.657A2, Yellow

DME PROLINK Fiber Optic Patch cord, Duplex, LC/APC-LC/APC, Single Mode OS2, LSZH, G.652D,



Description

The Fiber used in *DME PROLINK*'s Fiber Optic Patch cord, is made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

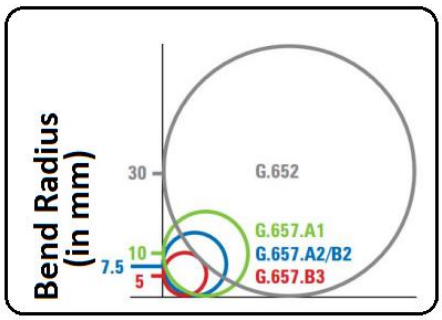
Features & Benefits

- The FO Duplex Patch cord comes with LC/APC connector at both ends. The end faces of the connectors are still curved but are angled at an industry standard 8°. This maintains a tight connection, and it reduces back reflection to about -70 dB.
- APC type connector back reflection does not degrade with repeated mating.
- Outer Sheath is Low Smoke Zero Halogen
- G.652D
- 25 Years System Warranty
- Length of Patch cord: 1m, 1.5m, 2m, 3m, 5m, 10m, 15m, 20m, 30m
- FO patch cord comes in Cable Diameter with either 2.0mm or 3.0mm

DME PROLINK Fiber Optic Patch cord, Duplex, LC/APC-LC/APC, Single Mode OS2, LSZH, G.652D,

The Fiber within FO Patch cord are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G652: Characteristics of a Single-mode optical fiber and cable
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable



The connector within FO Patch cord are designed, Manufactured and tested according to below standards:

- IEC 61300-1: Basic Test and Measurement procedures – Visual Examination
- IEC 61754: Fiber Optic Connector Interfaces
- IEC 61300-3-6: Basic Test and Measurement procedures - Examinations and Measurements - Return loss
- IEC 61300-3-34: Basic Test and Measurement procedures - Examinations and Measurements - Attenuation of random mated connectors

Technical Characteristics of Connectors

Fiber Type	Single mode OS2
Connector Type	LC
Connector Surface	APC (Angled Physical Contact)
Insertion Loss (dB)	≤ 0.3
Return Loss (dB)	≥ 65
Operating Temperature Range	-25°C to +70°C
Durability	> 500 times
Standard	IEC 601754-20

DME PROLINK Fiber Optic Patch cord, Duplex, LC/APC-LC/APC, Single Mode OS2, LSZH, G.652D,

Optical Fiber G.652D Specification

Category	Description	Values	
		Before Cable	After Cable
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km	≤0.36dB/km
	Attenuation @1383 nm (After aging hydrogenation)	≤0.34dB/km	≤0.35dB/km
	Attenuation @1550 nm	≤0.21 dB/km	≤0.22dB/km
	Attenuation @1625 nm	≤0.23 dB/km	≤0.25dB/km
	Fiber irregularities point and whole length @1310 &1550nm	≤0.05dB	
	Attenuation inhomogeneity @1310 nm & 1550 nm	≤0.05dB	
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	PMD Link value (M=20cables Q=0.01%)	0.1ps/√km	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Mode Field Diameter @1310 nm	8.6 ± 0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	245 ± 7μm	
	Coating non circularity	≤ 6%	
	Cladding / coating concentricity error	≤12μm	
	Core/clad concentricity error	≤0.5μm	
	Fiber curl radius	≥4m	
Mechanical Specifications	Proof stress	≥1.05%	
	Fatigue Resistance Parameter (Nd)	≥22	
	Peak Coating Strip Force	1.0~8.9N	
Environmental Specification	Fiber temperature dependence (-60℃ to +85℃)	≤0.05dB/km	
	Fiber temperature and humidity (+85 ± 2℃, 85% R.H. for 30 days)	≤0.05dB/km	
	Heat Aging Induced Attenuation(85 ± 2℃,for 30 days)	≤0.05dB/km	
	Water Immersion Induced (23 ± 2℃, for 30 days)	≤0.05dB/km	

DME PROLINK Fiber Optic Patch cord, Duplex, LC/APC-LC/APC, Single Mode OS2, LSZH, G.652D,

Factory Tests

Tests	Criteria Data
Appearance	Connector surface is smooth, no burr, no scratch, color uniformity.
Insertion Loss	≤ 0.3dB
Return Loss	≥65dB
Mechanical Durability	Plug and pull out for 500 times, No scratch and meet optical performance
Temperature Cycling	-10℃~60℃5 cycle ; ΔIL≤0.2dB,ΔRL＜5dB,

Tests done with reference to below standards

- IEC 61754-20: Fiber Optic interconnecting devices and passive components – Fiber Optic Connector Interfaces – Part 20: Type LC connector family
- IEC 61300-3-1: Fiber Optic interconnecting devices and passive components – Basic Test and Measurement procedures – Visual Examination
- IEC 61300-3-6: Basic Test and Measurement procedures - Examinations and Measurements - Return loss
- IEC 61300-3-34: Basic Test and Measurement procedures - Examinations and Measurements - Attenuation of random mated connectors
- IEC 61300-2-22: Fiber Optic interconnecting devices and passive components – Basic Test and Measurement procedures – Examinations and Measurements – Change of Temperature.

Part Number

D132x-LCALCA732L2DYW	Fiber Optic Patch Cord, Duplex, LC/APC, LC/APC, Single-mode OS2, 3m, 2.0mm, LSZH, G652D,Yellow

DME PROLINK High Density Optical Distribution Frame HD ODF

Description

DME PROLINK's HD ODF, HIGH DENSITY OPTICAL DISTRIBUTION FRAME for Fiber aggregation in FTTx networks. Positioned in the Central Office, Switch Centre or POP locations. HD ODF offers a capacity of 4224 Fiber terminations (Splice & Patch) to accommodate the termination density essential in any highly congested Telco environment. This HD ODF consists of 2Nos. of 19" Cabinets each providing up to 2112 fiber terminations fully loaded with HD Patch Panels. The HD ODF is designed with a footprint of 1800mm x 600mm. Each cabinet occupies a space of 600mm X 600mm with a 600mm Cable/Patch cord Management Panel in between for patch cord management and extra length storage. This solution has been developed in conjunction with leading Service Providers and address the issues of both density as well as manageability.

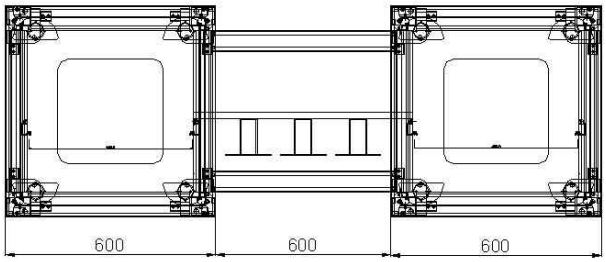
A Fully Loaded HD ODF:

- Two 600mm x 600mm Cabinets
- One 600mm wide Inter-Bay Cable Manager (IMP)
- Eighty & eight 1RU High Density (HD) Patch Panels
- A Capacity of 4224 terminations (2112 terminations per cabinet)
- 4224 Pig-tails (48 per HD Patch Panel)
- Splice Cassettes for 4224 fusion-splices

DME PROLINK High Density Optical Distribution Frame HD ODF

Features & Benefits

- Offers maximum of 4224 fiber Terminations with Fully loaded solution
- Optional rear doors and side panels (Must be ordered separately)
- 1800mm x 600mm footprint
- Top or bottom cable entry options
- Accepts *DME PROLINK's* HD Patch Panels.
- 44U height
- Accommodates Splicing and/or Direct Termination
- Durable Powder- coating finish.
- Cable Grounding kits are available.
- Complies with IEC 60068
- Easy to install.
- 25 Years System Warranty



Physical Configuration of HD ODF

Parameter		Value
Dimension	W x H x D (mm)	1800 x 44U x 600
General	Doors	Optional
	Side Panels	Optional
	Color	NCS2502-B

Part Number

D	1	4	1	1	-	g	d	p	l

g	Front Doors (Glass)
0	No Doors
2	2 Doors

d	Rear Doors (Metal)
0	No Doors
2	2 Doors

p	Side Panels (Metal)
0	No Panels
2	2 Panels

l	Loading
UL	Unloaded
SCU	Fully Loaded SC/UPC
SCA	Fully Loaded SC/APC
LCU	Fully Loaded LC/UPC
LCA	Fully Loaded LC/APC

DME PROLINK Fiber Optic Mini ODF
48 Fiber Capacity | with Splice Tray

Description

DME PROLINK's Mini ODF is an indoor distribution frame for fiber counts up to 48 Fibers.
This closure offers patch & splice functionality in a configuration supporting demarcation, in which there are two separate independently secured chambers. This allows splicing access to the installation teams and independent access to the terminate/patching function for the operations teams.
The solution provides an optical channel that is guaranteed to be compliant with the ISO 11801 International Standard for Structured Cabling. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

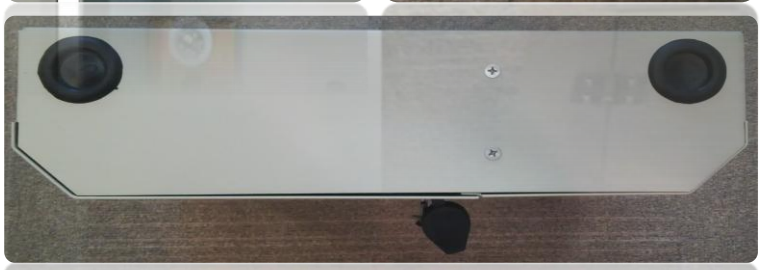
Features & Benefits

- 48 Fiber capacity accommodates both Direct Termination or Splicing options
- Top or bottom cable entry.
- Durable Powder- coating finish.
- Cable Grounding kits are available.
- Comes with locks & keys
- Comes with Splice trays – 48F
- Comes with SC/APC adapters Loaded
- The body made of cold-rolled steel. The steel plate thickness is 1.5mm, molded by numerical controlling. Surface treated with static plastic spray.
- Internal cable management provision
- Complies with IEC 60068
- Easy to install.
- 25 Years System Warranty

Technical Specification

- Voltage Resistance ≥ 3000VDC
- Insulating resistance between the metal parts of the body and grounding fitting: ≥ 2×10^4 mΩ/500V (DC).

DME PROLINK Fiber Optic Mini ODF 48 Fiber Capacity | with Splice Tray



Physical Configuration of Mini ODF

Parameter		Value	Remarks
Dimension	W x H x D (mm)	360 x 360 x 100	
Capacity	Core	48C	
Cable	2 Ingress 2 Egress	13-18mm	
		13-18mm	
SC/APC Adaptor	Number of Adapters	Maximum 48	Capacity 4 adaptor panels of 12 ea (SC/APC simplex)
Tray	Capacity	4	Max. capacity of 4 Trays

Part Number

D1439-48SCA1	**Fiber Optic Mini ODF, 48 Fibers, with 48 SC/APC, Simplex Adapters, with Lock, with Splice Tray**

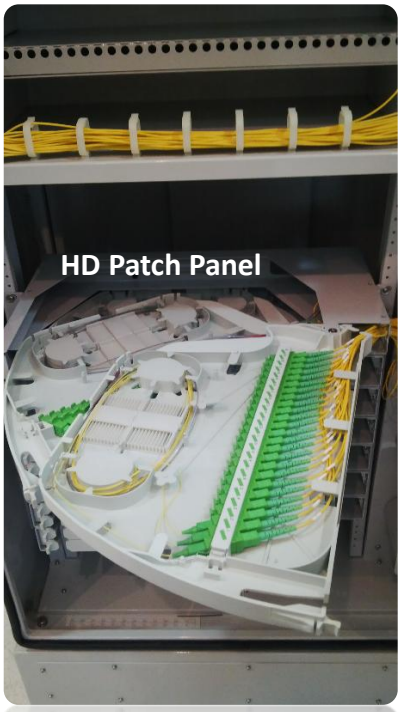
DME PROLINK Fiber Distribution Hub, High Density FDH

Description

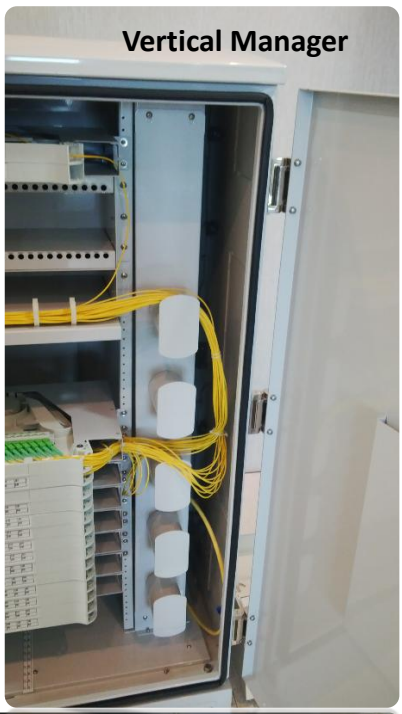
DME PROLINK's High-density Fiber Distribution Hub (HD-FDH) is specifically designed for OSP deployment in an FTTx architecture. This HD-FDH is designed to accommodate HD-Patch Panels as well as the associated Splitter and/or WDM modular components. *DME PROLINK*'s HD-FDH can accommodate up to 12 Nos. of High Density Patch Panel which can take 576 D-side (Output) and 96 E-side (Input) termination alongside 30 Nos. of Passive Splitter modules. This closure can be customized to any FTTx requirement and has been developed in conjunction with leading Service Providers.

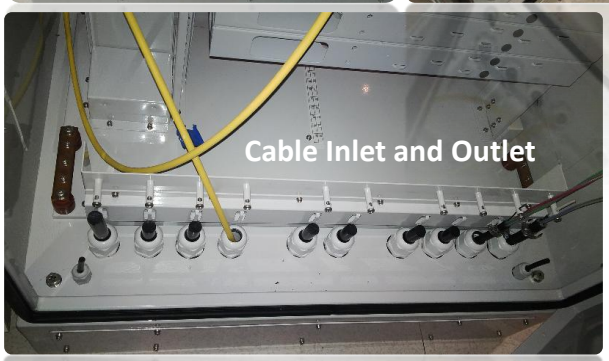
Features & Benefits

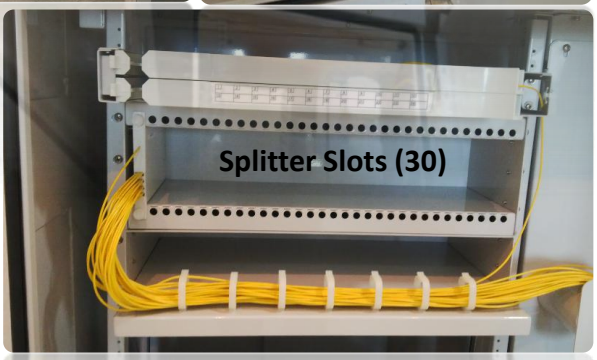
- Offers maximum capacity of 576 fiber Terminations fully-loaded on SC/APC
- Accepts *DME PROLINK's* compliant HD Patch Panels (1U) and Splitter Modules (Ordered separately).
- IP67 Environment Compliant.
- Accommodates Splicing and/or Direct Termination
- Integrated slack-storage
- Rugged construction suitable for OSP installation.
- Inactive Patching Parking Lot for Future expansions.
- Easy to install and terminate.
- Bend radius protection
- Intuitive cable routing
- Easy fiber/connector access
- Rear access for cable routing


HD Patch Panel


Rear of FDH


Vertical Manager

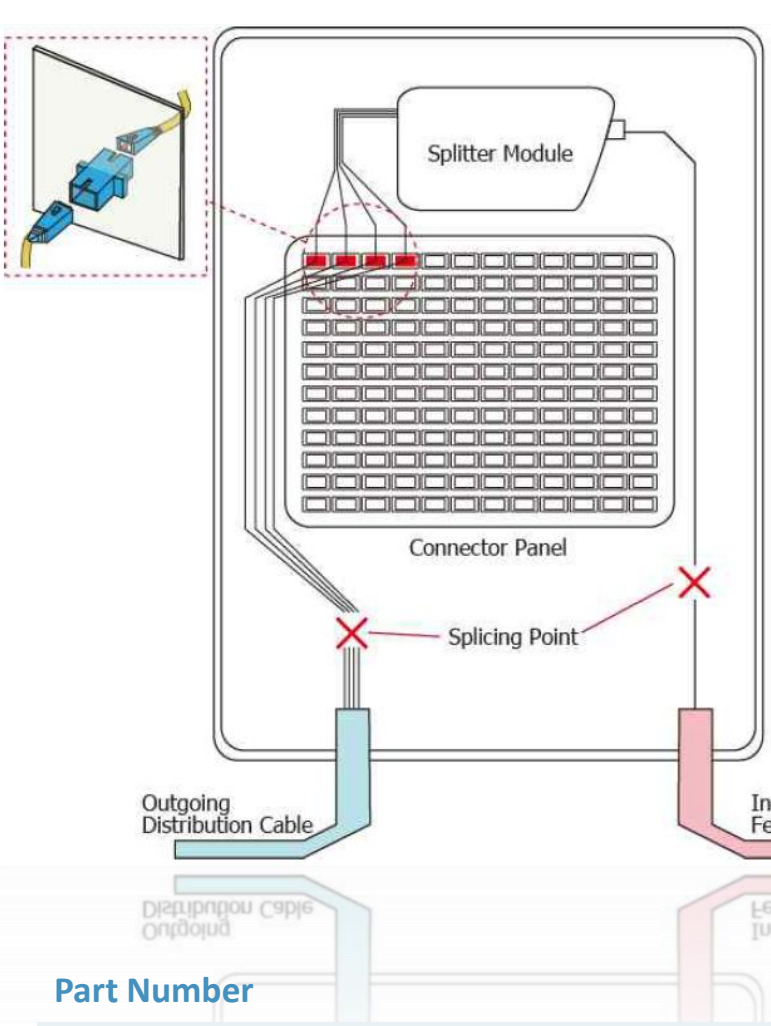

Cable Inlet and Outlet


Splitter Slots (30)


Splitter Module

Dimension and Configuration

Dimension (HxWxD) in mm	1530 x 800 x 600
Mounting Option	Floor
Cable Entry Capacity - Inlet	4
Cable Entry Capacity - Outlet	8
Cable Dia. (in mm)	20
Splitter Module Slot Capacity	Max. 30
Splitter Module Options	x:8, x:16, x:32 (where 'x' is1 or 2)
No. of 48 Port HD Patch Panels (1U)	-40°C to +70°C
Maximum Splice Capacity	576C



Part Number

D1541-FDH576	High Density Fiber Distribution Hub (FDH), Body only Capacity 576C

DME PROLINK Fiber Optic Outlet 2 Port, with 1 SC/APC Adapter, 1 Plastic Bush, No Pigtails

Description

DME PROLINK's Fiber Optic Outlet is installed inside the customer's premises to provide fiber termination points and housing for optical adapters, FICs and Pigtails. The FOO is used as an interface/interconnection point between the customer's in-building fiber optic cabling system and the ONT (Optical Network Terminal equipment) patch cord.

DME PROLINK's *FOO* supports termination, splicing & storage functions for Customer Premises fiber optic cable systems. The FOO is simple in design yet offers sufficient work space and fiber management – the box is engineered with all fiber routing supporting the minimum bend radius philosophy to ensure signal integrity.

Features & Benefits

- Compact size takes up less wall space for installation
- Inner slack storage area ensures minimum bend radius compliance
- Simple and easy installation
- Inner tray available to house splice sleeves
- Accepts standard SC and LC Adapters
- Comes in both Loaded and Unloaded options
- Mounting screws, Fischer, Cable Ties provided.
- Complies with IEC 61754-4
- 25 Years System Warranty

Physical Characteristics of Fiber Optic Outlet

Size (L*W*H) (mm)	100* 95 * 14
Max. Cable Diameter (mm)	3 ~ 6
No. of Ports	2
No. of Splice Capacity / Slots	2 (Compatible for 40mm Sleeves)
Splice Method	Fusion Splice
Cable Entry	Bottom and Rear
Material	Plastic
Storage / Operating Temperature Range	-5°C to +40°C
Standard	IEC 601754-4

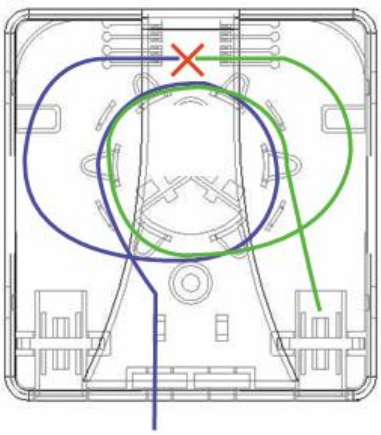
DME PROLINK Fiber Optic Outlet 2 Port, with 1 SC/APC Adapter, 1 Plastic Bush, No Pigtails

Technical Characteristics of Adapter

Fiber Type	Single mode
Adapter Type	SC/APC
Insertion Loss (dB)	≤ 0.20
Repeatability (dB)	≤ 0.20
Interchangeability (dB)	≤ 0.20
Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-25°C to +70°C
Durability	> 500 times
Standard	IEC 601754-4

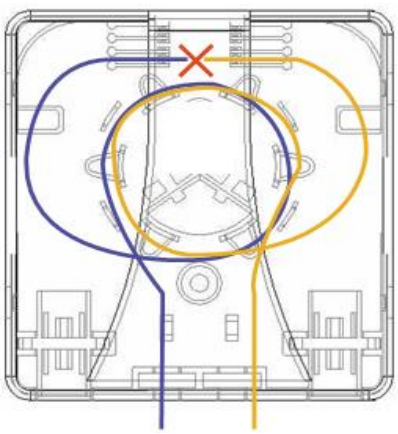
Application:

The FOO provides multiple functions in the subscriber network. It enables the operator to select the application of the box as the installation environment.



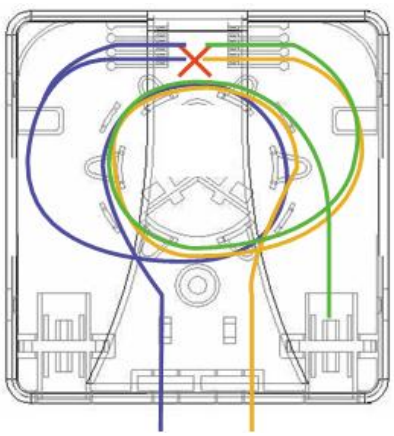
Fiber Optic Outlet

Incoming drop cable is spliced with the optical pigtail. And *splicing* point is protected in the Protection sleeve slot.



Transition Box

The incoming drop cable from the outdoor which is The black cable is spliced with outgoing white drop cable in the box



Multi-functional Box

The incoming black drop cable can be spliced with the optical pigtail and the outgoing white drop cable at once.

Part Number

D1561-2F10SCA	Fiber Optic Outlet, 2 Port with 1 SC/APC Adapter, 1 Plastic Bush, No Pigtails

DME PROLINK Fiber Optic Outlet 2 Port, Unloaded

Description

DME PROLINK's Fiber Optic Outlet is installed inside the customer's premises to provide fiber termination points and housing for optical adapters, FICs and Pigtails.

The FOO is used as an interface/interconnection point between the customer's in-building fiber optic cabling system and the ONT (Optical Network Terminal equipment) patch cord.

DME PROLINK's *FOO* supports termination, splicing & storage functions for Customer Premises fiber optic cable systems. The FOO is simple in design yet offers sufficient work space and fiber management – the box is engineered with all fiber routing supporting the minimum bend radius philosophy to ensure signal integrity.

Features & Benefits

- Compact size takes up less wall space for installation
- Inner slack storage area ensures minimum bend radius compliance
- Simple and easy installation
- Inner tray available to house splice sleeves
- Accepts standard SC and LC Adapters
- Comes in both Loaded and Unloaded options
- Mounting screws, Fischer, Cable Ties provided.
- Complies with IEC 61754-4
- 25 Years System Warranty

Physical Characteristics of Fiber Optic Outlet

Size (L*W*H) (mm)	86* 86 * 20
Max. Cable Diameter (mm) / No. of Ports	3 ~ 6 / 2 Ports
No. of Splice Capacity / Slots	2 (Compatible for 40mm Sleeves)
Splice Method	Fusion Splice
Cable Entry	Bottom and Rear
Material	Plastic
Storage / Operating Temperature Range	-5°C to +40°C
Standard	IEC 601754-4

Part Number

D1569-2F00	**Fiber Optic Outlet, 2 Port Unloaded with No Adapters and No Pigtails**

DME PROLINK Fiber Optic Outlet (FOO) 4-Port Micro ODF (Unloaded)

Features & Benefits

- Compact size takes up less wall space for installation
- Inner slack storage area ensures minimum bend radius compliance
- Simple and easy installation
- Inner tray available to house splice sleeves
- Accepts standard SC Simplex and LC Duplex Adapters
- Unloaded
- Mounting screws, Fischer, Cable Ties provided.
- 25 Years System Warranty

Dimension	100.5* 80.5 * 28.8 mm
Operation Temperature	-5°C to +50°C
No. of Ports	4
Applicable Fiber Mode	Single Mode & Multimode
Adapter	Simplex SC / Duplex LC
Insertion Loss for adapter	≤ 0.2dB (1310nm & 1550nm)
Cable Diameter for Inlet	6mm

Part Number

D156x-4F00	**Fiber Optic Outlet, 4-Port Unloaded, No Adapters, No Pigtails**

DME PROLINK Fiber Optic Outlet (FOO)
4-Port Micro ODF (Loaded) SC/APC and LC/APC

Features & Benefits

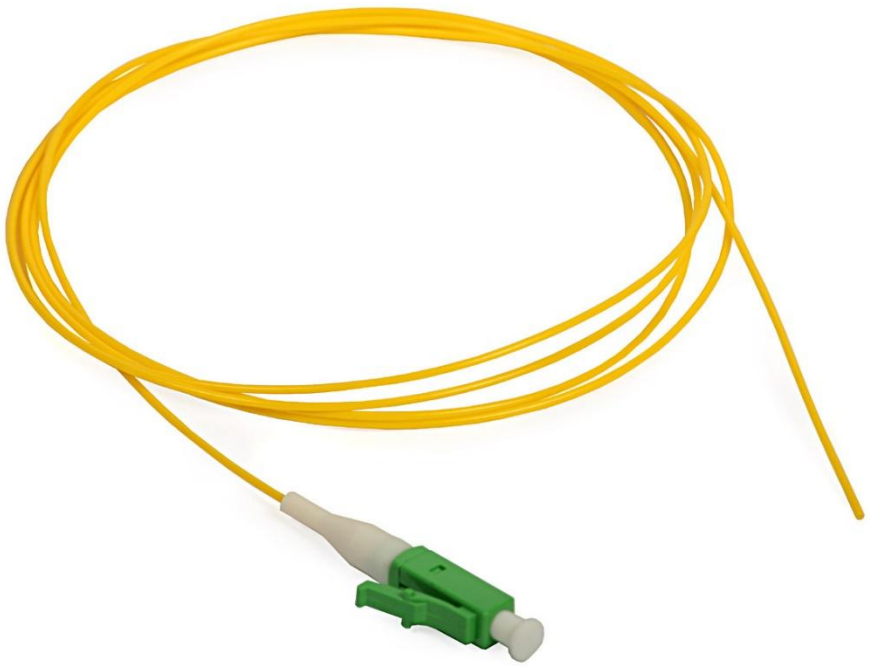
- Compact size takes up less wall space for installation
- Inner slack storage area ensures minimum bend radius compliance
- Simple and easy installation
- Inner tray available to house splice sleeves
- Accepts standard SC Simplex and LC Duplex Adapters
- Fully Loaded
- Mounting screws, Fischer, Cable Ties provided.
- 25 Years System Warranty

Dimension	100.5* 80.5 * 28.8 mm
Operation Temperature	-5°C to +50°C
No. of Ports	4
Applicable Fiber Mode	Single Mode & Multimode
Adapter	Simplex SC / Duplex LC
Insertion Loss for adapter	≤ 0.2dB (1310nm & 1550nm)
Cable Diameter for Inlet	6mm

Part Number

D1569-4F43-2SCA2LCA	**4 Port Fiber Terminal Box / Micro ODF (Rosette) with 2 LC/APC Pigtails, 2 SC/APC Pigtails, 2 SC/APC Simplex adapter and 1 LC/APC Duplex adapter. Pigtail OD 0.9mm, G.657A2, 1 meter; with 4 Nos. of 40mm Fiber Optic Protection Sleeves**

DME PROLINK Fiber Optic Pigtail, LC/APC, OS2, G.657A1/A2, LSZH



Description

The Fiber used in *DME PROLINK*'s Fiber Optic Pigtail, is made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

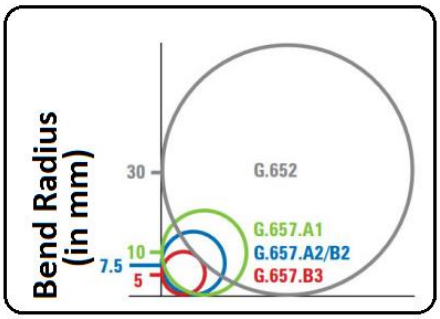
Features & Benefits

- APC type connector back reflection does not degrade with repeated mating.
- The Pigtail comes with LC/APC connector. The end faces are still curved but are angled at an industry standard 8°. This maintains a tight connection, and it reduces back reflection to about -70 dB.
- Outer Sheath is Low Smoke Zero Halogen
- G.657A1 or G.657A2
- 25 Years System Warranty
- Length of Pigtail is 1m
- Diameter for Fiber cable of Pigtail is Φ0.9 (±0.05mm)

DME PROLINK Fiber Optic Pigtail, LC/APC, OS2, G.657A1/A2, LSZH

The Fiber within Pigtails are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G652: Characteristics of a Single-mode optical fiber and cable
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
- ITU-T G.657: Characteristics of a bending-loss insensitive single-mode optical fiber



The connector within Pigtails are designed, Manufactured and tested according to below standards:

- IEC 61300-1: Basic Test and Measurement procedures – Visual Examination
- IEC 61754: Fiber Optic Connector Interfaces
- IEC 61300-3-6: Basic Test and Measurement procedures - Examinations and Measurements - Return loss
- IEC 61300-3-34: Basic Test and Measurement procedures - Examinations and Measurements - Attenuation of random mated connectors

Technical Characteristics of Connectors

Fiber Type	Single mode OS2
Connector Type	LC
Connector Surface	APC (Angled Physical Contact)
Insertion Loss (dB)	≤ 0.3
Return Loss (dB)	≥ 65
Operating Temperature Range	-25°C to +70°C
Durability	> 500 times
Standard	IEC 601754-20

DME PROLINK Fiber Optic Pigtail, LC/APC, OS2, G.657A1/A2, LSZH

Optical Fiber G.657A1 Specification

Category	Description	Values	
		Before Cable	After Cable
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km	≤0.36dB/km
	Attenuation @1383 nm (After aging hydrogenation)	≤0.34dB/km	≤0.35dB/km
	Attenuation @1550 nm	≤0.21 dB/km	≤0.22dB/km
	Fiber irregularities point and whole length @1310 &1550nm	≤0.05dB	
	Attenuation inhomogeneity @1310 nm & 1550 nm	≤0.05dB	
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	PMD Link value (M=20cables Q=0.01%)	0.1ps/√km	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Mode Field Diameter @1310 nm	8.6 ± 0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	245 ± 7μm	
	Coating non circularity	≤ 6%	
	Cladding / coating concentricity error	≤12μm	
	Core/clad concentricity error	≤0.5μm	
	Fiber curl radius	≥4m	
Mechanical Specifications	Proof stress	≥1.05%	
	Fatigue Resistance Parameter (Nd)	≥22	
	Peak Coating Strip Force	1.0~8.9N	
Environmental Specification	Fiber temperature dependence (-60℃ to +85℃)	≤0.05dB/km	
	Fiber temperature and humidity (+85 ± 2℃, 85% R.H. for 30 days)	≤0.05dB/km	
	Heat Aging Induced Attenuation(85 ± 2℃,for 30 days)	≤0.05dB/km	
	Water Immersion Induced (23 ± 2℃, for 30 days)	≤0.05dB/km	

DME PROLINK Fiber Optic Pigtail, LC/APC, OS2, G.657A1/A2, LSZH

Optical Fiber G.657A2 Specification

Category	Description	Values	
		Before Cable	After Cable
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km	≤0.36dB/km
	Attenuation @1383 nm (After aging hydrogenation)	≤0.34dB/km	≤0.35dB/km
	Attenuation @1550 nm	≤0.21 dB/km	≤0.22dB/km
	Attenuation @1625 nm	≤0.23 dB/km	≤0.25dB/km
	Fiber irregularities point and whole length @1310 &1550nm	≤0.05dB	
	Attenuation inhomogeneity @1310 nm & 1550 nm	≤0.05dB	
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	PMD Link value (M=20cables Q=0.01%)	0.1ps/√km	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Macro bending Loss (10 turns; Φ30 mm) @1550 nm (10 turns; Φ30 mm) @1625 nm (1 turns; Φ20 mm) @1550 nm (1 turns; Φ20 mm) @1625 nm (1 turns; Φ15 mm) @1550 nm (1 turns; Φ15 mm) @1625 nm	 ≤ 0.03 dB ≤ 0.10 dB ≤ 0.10 dB ≤ 0.20 dB ≤ 0.50 dB ≤ 1.00 dB	
	Mode Field Diameter @1310 nm	8.6 ± 0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	245 ± 7μm	
	Coating non circularity	≤ 6%	
	Cladding / coating concentricity error	≤12μm	
	Core/clad concentricity error	≤0.5μm	
	Fiber curl radius	≥4m	
Mechanical Specifications	Proof stress	≥1.05%	
	Fatigue Resistance Parameter (Nd)	≥22	
	Peak Coating Strip Force	1.0~8.9N	
Environmental Specification	Fiber temperature dependence (-60℃ to +85℃)	≤0.05dB/km	
	Fiber temperature and humidity (+85 ± 2℃, 85% R.H. for 30 days)	≤0.05dB/km	
	Heat Aging Induced Attenuation(85 ± 2℃,for 30 days)	≤0.05dB/km	
	Water Immersion Induced (23 ± 2℃, for 30 days)	≤0.05dB/km	

Factory Tests

Tests	Criteria Data
Appearance	Connector surface is smooth, no burr, no scratch, color uniformity.
Insertion Loss	≤ 0.3dB
Return Loss	≥65dB
Mechanical Durability	Plug and pull out for 500 times, No scratch and meet optical performance
Temperature Cycling	-10℃~60℃5 cycle ; ΔIL≤0.2dB,ΔRL＜5dB,

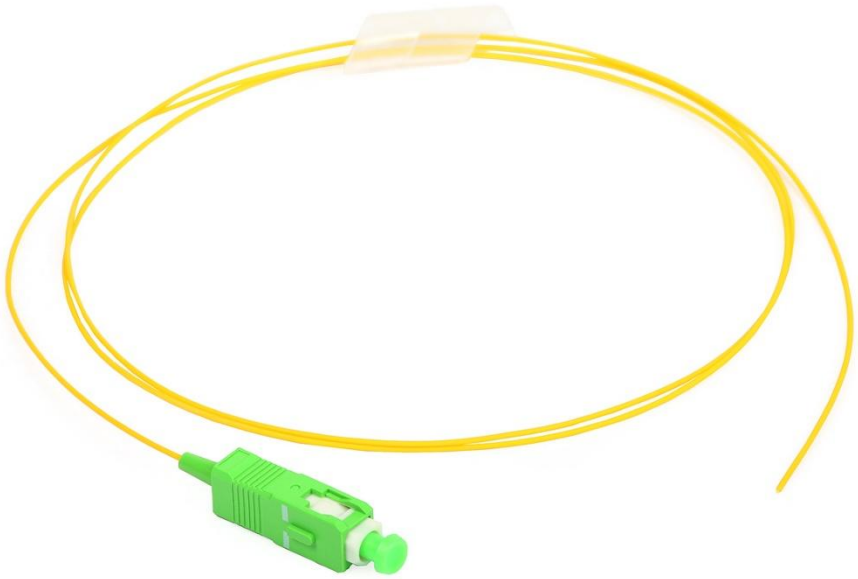
Tests done with reference to below standards

- IEC 61754-20: Fiber Optic interconnecting devices and passive components – Fiber Optic Connector Interfaces – Part 20: Type LC connector family
- IEC 61300-3-1: Fiber Optic interconnecting devices and passive components – Basic Test and Measurement procedures – Visual Examination
- IEC 61300-3-6: Basic Test and Measurement procedures - Examinations and Measurements - Return loss
- IEC 61300-3-34: Basic Test and Measurement procedures - Examinations and Measurements - Attenuation of random mated connectors
- IEC 61300-2-22: Fiber Optic interconnecting devices and passive components – Basic Test and Measurement procedures – Examinations and Measurements – Change of Temperature.

Part Number

D1619-LCA77A11	Fiber Optic Pigtail, LC/APC, Single-mode OS2, G.657A1, LSZH, 1m
D1619-LCA77A21	Fiber Optic Pigtail, LC/APC, Single-mode OS2, G.657A2, LSZH, 1m

DME PROLINK Fiber Optic Pigtail, SC/APC, OS2, G.657A1, LSZH



Description

The Fiber used in *DME PROLINK*'s Fiber Optic Pigtail, is made of pure silica and germanium doped silica. A UV curable acrylate material is applied over the Fiber Cladding as primary protective coating. DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

The Pigtail comes with SC/APC connector. The end faces are still curved but are angled at an industry standard 8°. This maintains a tight connection, and it reduces back reflection to about -70 dB.

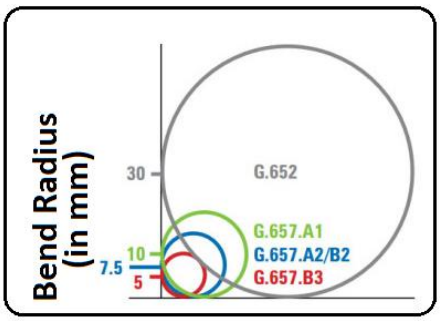
Features & Benefits

- APC type connector back reflection does not degrade with repeated mating.
- Outer Sheath is Low Smoke Zero Halogen
- G.657A1
- 25 Years System Warranty
- Length of Pigtail is 1m
- Diameter for Fiber cable of Pigtail is Φ0.9 (±0.05mm)

DME PROLINK Fiber Optic Pigtail, SC/APC, OS2, G.657A1, LSZH

The Fiber within Pigtails are designed, Manufactured and tested according to below standards:

- IEC 60793-1: Optical Fiber Part 1: Generic Specification
- IEC 60793-2: Optical Fiber Part 2: Product Specification
- IEC 60794-2: Optical Fiber Cables Part 2 Indoor cables- Sectional Specification
- ITU-T G652: Characteristics of a Single-mode optical fiber and cable
- ITU-T G.655: Characteristics of a non-zero dispersion-shifted single-mode optical fiber and cable
- ITU-T G.657: Characteristics of a bending-loss insensitive single-mode optical fiber



The connector within Pigtails are designed, Manufactured and tested according to below standards:

- IEC 61300-1: Basic Test and Measurement procedures – Visual Examination
- IEC 61754: Fiber Optic Connector Interfaces
- IEC 61300-3-6: Basic Test and Measurement procedures - Examinations and Measurements - Return loss
- IEC 61300-3-34: Basic Test and Measurement procedures - Examinations and Measurements - Attenuation of random mated connectors

Technical Characteristics of Connectors

Fiber Type	Single mode OS2
Connector Type	SC
Connector Surface	APC (Angled Physical Contact)
Insertion Loss (dB)	≤ 0.3
Return Loss (dB)	≥ 65
Operating Temperature Range	-25°C to +70°C
Durability	> 500 times
Standard	IEC 601754-20

DME PROLINK Fiber Optic Pigtail, SC/APC, OS2, G.657A1, LSZH

Optical Fiber G.657A1 Specification

Category	Description	Values	
		Before Cable	After Cable
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km	≤0.36dB/km
	Attenuation @1383 nm (After aging hydrogenation)	≤0.34dB/km	≤0.35dB/km
	Attenuation @1550 nm	≤0.21 dB/km	≤0.22dB/km
	Attenuation @1625 nm	≤0.23 dB/km	≤0.25dB/km
	Fiber irregularities point and whole length @1310 &1550nm	≤0.05dB	
	Attenuation inhomogeneity @1310 nm & 1550 nm	≤0.05dB	
	Zero Dispersion Slope	≤0.092 ps/nm²·km	
	PMD Link value (M=20cables Q=0.01%)	0.1ps/√km	
	Cable Cutoff Wavelength (λcc)	≤1260 nm	
	Macro bending Loss (10 turns; Φ30 mm) @1550 nm (10 turns; Φ30 mm) @1625 nm (1 turns; Φ20 mm) @1550 nm (1 turns; Φ20 mm) @1625 nm (1 turns; Φ15 mm) @1550 nm (1 turns; Φ15 mm) @1625 nm	 ≤ 0.03 dB ≤ 0.10 dB ≤ 0.10 dB ≤ 0.20 dB ≤ 0.50 dB ≤ 1.00 dB	
	Mode Field Diameter @1310 nm	8.6 ± 0.4μm	
Dimensional Specifications	Cladding Diameter	125 ±1μm	
	Cladding non circularity	≤1.0%	
	Coating diameter	245 ± 7μm	
	Coating non circularity	≤ 6%	
	Cladding / coating concentricity error	≤12μm	
	Core/clad concentricity error	≤0.5μm	
	Fiber curl radius	≥4m	
Mechanical Specifications	Proof stress	≥1.05%	
	Fatigue Resistance Parameter (Nd)	≥22	
	Peak Coating Strip Force	1.0~8.9N	
Environmental Specification	Fiber temperature dependence (-60℃ to +85℃)	≤0.05dB/km	
	Fiber temperature and humidity (+85 ± 2℃, 85% R.H. for 30 days)	≤0.05dB/km	
	Heat Aging Induced Attenuation(85 ± 2℃,for 30 days)	≤0.05dB/km	
	Water Immersion Induced (23 ± 2℃, for 30 days)	≤0.05dB/km	

Factory Tests

Tests	Criteria Data
Appearance	Connector surface is smooth, no burr, no scratch, color uniformity.
Insertion Loss	≤ 0.3dB
Return Loss	≥60dB
Mechanical Durability	Plug and pull out for 500 times, No scratch and meet optical performance
Temperature Cycling	-10℃~60℃5 cycle ; ΔIL≤0.2dB,ΔRL＜5dB,

Tests done with reference to below standards

- IEC 61754-04: Fiber Optic interconnecting devices and passive components – Fiber Optic Connector Interfaces – Part 4: Type SC connector family
- IEC 61300-3-1: Fiber Optic interconnecting devices and passive components – Basic Test and Measurement procedures – Visual Examination
- IEC 61300-3-6: Basic Test and Measurement procedures - Examinations and Measurements - Return loss
- IEC 61300-3-34: Basic Test and Measurement procedures - Examinations and Measurements - Attenuation of random mated connectors
- IEC 61300-2-22: Fiber Optic interconnecting devices and passive components – Basic Test and Measurement procedures – Examinations and Measurements – Change of Temperature.

Part Number

D161x-SCA77A11	**Fiber Optic Pigtail, SC/APC, Single-mode OS2, G.657A1, LSZH, 1m**

DME PROLINK Fiber Optic Adapter, LC/APC, Single mode, Duplex

Description

DME PROLINK provides a Fiber Optic coupling adapter family to support interconnection. *DME PROLINK* adapters are available in a wide range of hybrid adapter styles to fit almost any application or panel. *DME PROLINK* quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

Features & Benefits

- Excellent Changeability and Directivity
- High quality Ceramic sleeves for high precision alignment
- Accurate mounting dimensions
- Complies with IEC 61754-20
- 25 Years System Warranty

Technical Characteristics of Adapter

Fiber Type	Single mode
Adapter Type	LC
Insertion Loss (dB)	≤ 0.20
Repeatability (dB)	≤ 0.20
Interchangeability (dB)	≤ 0.20
Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-25°C to +70°C
Durability	> 500 times
Standard	IEC 601754-20

Part Number

D162x-LCASMD	**Fiber Optic Coupling Adapter, LC/APC, Single mode, Duplex**

DME PROLINK Fiber Optic Adapter, SC/APC, Single mode, Simplex

Description

DME PROLINK provides a Fiber Optic coupling adapter family to support interconnection. *DME PROLINK* adapters are available in a wide range of hybrid adapter styles to fit almost any application or panel. *DME PROLINK* quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

Features & Benefits

- Excellent Changeability and Directivity
- High quality Ceramic sleeves for high precision alignment
- Accurate mounting dimensions
- Complies with IEC 61754-4
- 25 Years System Warranty

Technical Characteristics of Adapter

Fiber Type	Single mode
Adapter Type	SC
Insertion Loss (dB)	≤ 0.20
Repeatability (dB)	≤ 0.20
Interchangeability (dB)	≤ 0.20
Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-25°C to +70°C
Durability	> 500 times
Standard	IEC 601754-4

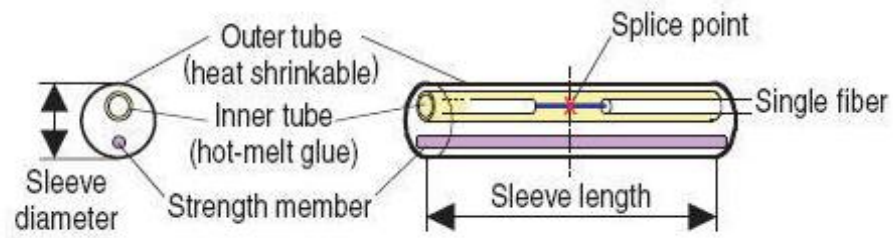
Part Number

D162x-SCASMS	**Fiber Optic Coupling Adapter, SC/APC, Single mode, Simplex**

DME PROLINK Splice Protection Sleeves, For Single Fiber

Physical Characteristics of Splice Protection Sleeve

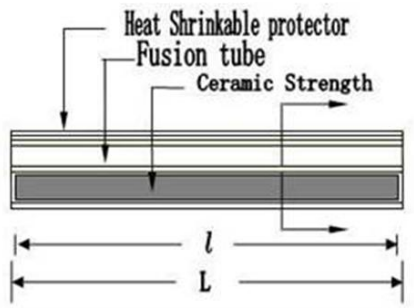
Length	Strength Member	Φ1.0 x 40mm/60mm
	Sleeve	40mm/60mm
Material	Heat Shrink Sleeve	Polyolefin
	Adhesive Tube	Polyolefin
	Strength Member	Stainless Steel, Silver
Applicable Fiber	Single Fiber, 0.25mm, 0.9mm coating dia.	
Color	Transparent	

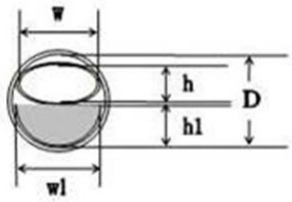


Part Number

D164x-40	Fiber Optic Splice Protection Sleeve - 40mm
D164x-60	Fiber Optic Splice Protection Sleeve - 60mm

DME PROLINK Splice Protection Sleeves, For Ribbon Fiber





Key Specifications/Special Features:

- Provide safe protection to optical fiber splicing
- Easily used and avoid any damage during installation
- Clear sleeve makes it easy to detect splice before shrinkage
- Can accommodate Ribbon Fiber 4-8 Fibers
- Made of Inner and Outer ethylene (EVA) melt able adhesive tube.
- Operating temperature: -45 to +100°C
- Shrinking temperature range: 90 to 110°C

Physical Characteristics of Splice Protection Sleeve

Length of Strength Member (l)		40 ± 0.8mm
Total Length of Ribbon Fiber Protection Ribbon Sleeve (L)		40mm
Diameter or Width of Strength Member (w1)		4.0 ± 0.1mm
Width of Inner Tube (W)		4.0 ± 0.1mm
Height of Inner Tube (h)		2.8 ± 0.1mm
Height of Strength Member (h1)		2.0 ± 0.1mm
Total Diameter of Ribbon Fiber Protection Sleeve (D)		2.7 ± 0.05mm
Material	Heat Shrink Sleeve	ethylene (EVA)
	Adhesive Tube	ethylene (EVA)
	Strength Member	Ceramic
Applicable Fiber	Ribbon Fiber 4 and 8 Fibers	
Color	Transparent	

Part Number

D164x-R40	**Fiber Optic Splice Protection Sleeve for Ribbon Fiber - 40mm**

DME PROLINK Fiber Optic Connector SC/APC, Single mode, FIC

Description

DME PROLINK field installable connector is a cost-effective, pre-polished connector, designed for ease of installation and re-use if so required. It requires no field polishing or epoxy, so no heat-curing devices nor special tooling are needed to facilitate the termination of the fiber.

DME PROLINK quality personals ensures product reliability through rigorous qualification testing to assure cable performance and durability in adverse field environments. Excellent quality control is achieved through intense in-house quality check and stringent audit acceptance by ISO 9001.

Features & Benefits

- Short termination time – no epoxy, no baking.
- Available in SC/APC, SC/UPC, LC/UPC etc.
- Available for "flat" as well as conventional tight-buffered cable.
- Operating Temperature Range: -30°C to +75°C
- Storage Temperature Range: -40°C to +80°C
- Re-usable (Supports multiple terminations)
- 25 Years System Warranty

Technical Characteristics of FIC

Performance	Conditions	Requirements		Reference
Insertion Loss	Source Wavelength	SC/APC; SC/UPC	IL ≤ 0.5 dB	IEC61300-3-4
	1310nm ± 10nm			
	1490nm ± 10nm			
	1550nm ± 10nm			
	1625nm ± 10nm			
Return Loss	Source Wavelength	SC/APC	RL ≥ 60 dB	IEC61300-3-6
	1310nm ± 10nm			
	1490nm ± 10nm			
	1550nm ± 10nm	SC/UPC	RL ≥ 50 dB	
	1625nm ± 10nm			

Part Number

D1651-SCAS-F	Fiber Optic Field-Installable Connector, SC/APC, Single-mode, Flat Cable

DME PROLINK Fiber Optic Splitter Modules for FDH

Description

DME PROLINK's Fiber Distribution Hub (FDH), uses a Mini Plug-'n-Play Splitter Module which is common to all of our FDH cabinets and features a common output length. This module allows for true plug and play functionality.

Features & Benefits

- Features bend-optimized fiber and ruggedized extreme temperature cabling rated for material handling in cold temperatures with superior loss performance at 1490 and 1550 wavelengths
- Splitter Modules are easy to insert and remove without affecting the adjacent splitters
- Reversible dust cap makes test and turn-up easy
- Operating Temperature Range: -50°C to +60°C
- Standardized splitter modules for all FDH cabinet Types and sizes
- Splitter Configurations: 1:2, 1:4, 1:8, 1:16 & 1:32

Optical Characteristics of Splitter

Parameters (2:32 Splitter)	Value
Operating Wavelength (nm)	1260 – 1650
Maximum Insertion Loss (dB)	≤16.9
Uniformity Maximum (dB)	1.3
Polarization Dependent Loss - PDL (dB)	0.3
Return Loss (dB)	≥ 55
Directivity (dB)	≥ 55
Storage Temperature Range	- 40 to 85 ℃
Operating Temperature Range	- 40 to 85 ℃
Connector	SC/APC

Physical Configuration of Splitter Module

Parameter		Value
Splitter Type		1:2, 1:4, 1:8, 1:16, 1:32
Description		Splitter Module Case / PLC Type
Dimensions	H x W x D (mm)	80 x 12 x 150mm
Input		SC/APC Pigtail 2.5m (2mm OD)
Output		Tight Buffered Tube (2mm)
Output Cord Length (m)		2.5m
Fiber Type		Single Mode
Connector Adapter Type		SC/APC
Case Material /Color		Aluminum / Grey

Part Number

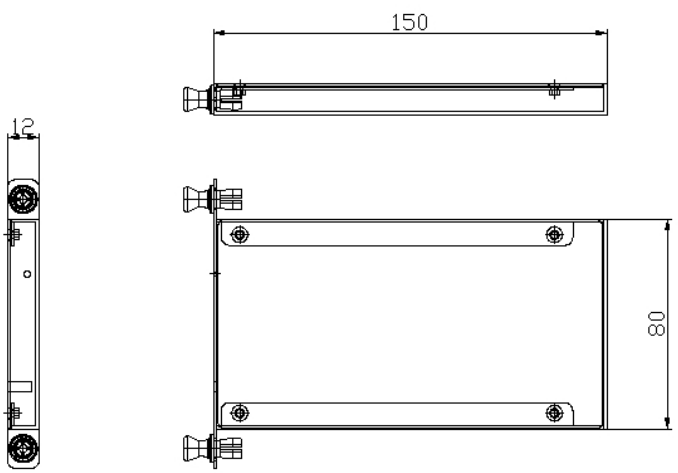
D	1	6	7	1	-	i	o	f	-	l

Number of Inputs	i
1	1
2	2

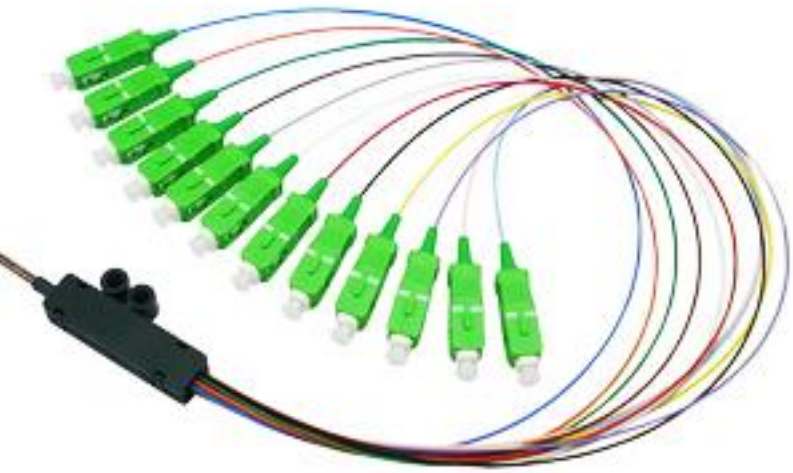
o	Number of Outputs
2	2
4	4
8	8
16	16
32	32

l	Output Length (m)
Default is 2.5m	

f	Output Form
SCA	SC/APC



DME PROLINK Fiber Optic Ribbon Fan out cord

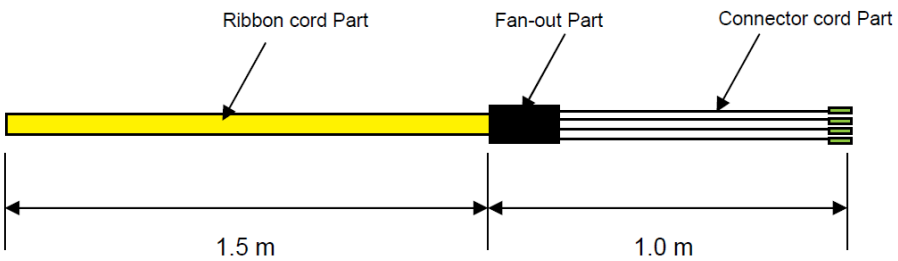


Description

DME PROLINK's Fiber Optic Fan out assemblies for Ribbon fiber offer a neat, easy-to-deploy option for Single mode fiber in an FTTx environment. These assemblies are available in a stubbed configuration, i.e. one end of the cable is pre-terminated while the other end is spliced..

Features & Benefits

- Easy circuit identification through color coding in accordance with DIN/IEC 304 or TIA 598B
- Pre-configured plug and play solution
- Minimum Bending Radius: 30mm
- Rapid, cost saving installation
- Assemblies with LC, SC or FC connectors
- Available as 4F, 8F and 12F
- Fiber Type is G.652D
- Tensile Strength : 10 Kgf
- 25 Years System Warranty



Ribbon Fiber

Parameter	4 Fiber	8 Fiber
Type	Encapsulated Fiber Optic Ribbon	
Coating Material	UV Cured Acrylate	
Overall Width (mm)	1.1	2.1
Overall thickness (mm)	0.4	0.4

Ribbon Cord Part

Parameter	Specification
Material	PVC
Length	1.5m
Diameter (in mm)	3.0mm (Rectangular Type)
Color	Yellow

DME PROLINK Fiber Optic Ribbon Fan out cord

Fan out Part

Parameter	Specification
Material	PVC

Connector Cord Part

Parameter	Specification
Material	PVC
Length	1.0m (including Fan-out and connector)
Diameter (in mm)	0.9mm
Connector Type	FC or LC or SC (PC or APC)
Color	Transparent

Part Number

D	1	6	8	1	-	f	r	c	n

f	Fan out Length
05	0.5m
1	1m
15	1.5m
2	2m

r	Ribbon Cord Length
1	1m
1.5	1.5m
3	3m
5	5m
15	15m

c	Connector Type
LCU	LC/UPC
LCA	LC/APC
SCU	SC/UPC
SCA	SC/APC
ST	ST
FC	FC

n	Number of Fibers
4F	4 Fiber
8F	8 Fiber
12F	12 Fiber

DME PROLINK Fiber Optic Patch cord Drawer, 19” Rack Mount

Description

DME PROLINK’s *Fiber Optic Patch Drawers* are 19” Rack-mountable enclosures for the storing the over length Patch cords in an indoor environment. These Patch drawer are stackable allowing users to add units as the fiber count requirements increases.

Features & Benefits

- 19” Rack-mountable; 1RU
- Easy to install.
- The body made of cold-rolled steel. The steel plate thickness is 1.5mm, molded by numerical controlling. Surface treated with static plastic spray.
- Internal cable management
- Sliding tray for easy access to fibers
- Removable Fiber Management Plate on Front of the drawer.
- Complies with IEC 60068
- 25 Years System Warranty

Parameter		Value
Drawer Type		19” Rack Mountable
Dimensions	H x W x D (mm)	1RU x 435 x 230mm
Color		Grey NCS2502-B

Part Number

D	1	8	1	-	P	C	D	R	A	W	E	R

DME PROLINK Wall Mount Cabinet

Description

DME PROLINK's has wide range of Wall Mount cabinets which are available in any number of configurations to suit any environment or application.

Features & Benefits

- Static loading capability of up to 60 kg.
- Removable Side panels and Doors for Easy access.
- Glass or Perforated Front and Rear door options.
- Top or bottom cable entry
- Fan Tray with 1 / 2 Fans
- Standard 6-Way Power Distribution Unit (PDU) comes with Cabinets. (PDUs can be customized)
- Key Lock arrangement for added security
- Height (H): 6U, 9U, 12U, 15U, 16U, 18U, 22U
- Width (W): 600mm
- Depth (D): 500mm, 515mm, 550mm 600mm
- Optional casters and feet available for floor mounting
- 25 Years System Warranty

Construction

SPCC Quality cold rolled steel

Standards Compliance

- ANSI/EIA RS-310-D, IEC297-2, DIN41491; Part1, DIN41494; Part7, GB/T3047.2-92 Standard.
- Compatible with 19" international Standard and Metric Standard & ETSI.

DME PROLINK Wall Mount Cabinet

Removable Side Panels with optional side panel lock

Cabinets Fans for Ventilation

Cabinet Shelf

Adjustable Mounting Rails

Switched 6-way PDU

Cable Entry Knockout

DME PROLINK Wall Mount Cabinet

D	3	1	x	-	h	w	d	s	p	f	c

x	Pin assigned by ECS
0-9	Inventory Management Index

h	Height
6	6U
9	9U
12	12U
15	15U
16	16U
18	18U
22	22U

w	Width
60	600mm

d	Depth
45	450mm
51	515mm
55	550mm
60	600mm
80	800mm

s	Number of Shelves
1	1 Shelf
2	2 Shelves

p	Number of PDU's
0	No PDU
1	1 x 6-Way PDU
2	2 x 6-Way PDU's

f	Fans
0	No Fans
1	1 Fan
2	2 Fans

c	Color
WT	White
BK	Black
GY	Grey
BG	Beige

Part Number (Example)

D315-066051112BK	Cabinet, Wall Mount 6RU, 600 Wide, 515 Deep, 1 Shelf, 1 PDU, 2 Fans, Black (RAL9004)
D315-096045012BK	Cabinet, Wall Mount 9RU, 600 Wide, 450 Deep, no Shelf, 1PDU, 2 Fans, Black
D315-126051112BK	Cabinet, Wall Mount 12RU, 600 Wide, 515 Deep, 1 Shelf, 1 PDU, 2 Fans, Black (RAL9004)
D315-156050112BK	Cabinet, Wall Mount 15RU, 600 Wide, 500 Deep, 1 Shelf, 1 PDU, 2 Fans, Black (RAL9004)
D315-186060112BK	Cabinet, Wall Mount 18RU, 600 Wide, 600 Deep, 1 Shelf, 1 PDU, 2 Fans, Black (RAL9004)

DME PROLINK Floor Mount Cabinet
Front Glass Door | Rear Solid Metal Door

Description

DME PROLINK's has wide range of Floor Mount cabinets which are available in any number of configurations to suit any environment or application.

Features & Benefits

- Static loading capability of up to 1000 kg.
- Removable Side panels and Doors.
- Front Glass Door ; Rear Solid Metal Door
- Top or bottom cable entry
- Comes with Shelves
- Fan Tray with 4 Fans / 2 Fans
- Standard 6-Way Power Distribution Unit (PDU) comes with Cabinets. (PDUs can be customized)
- Key Lock arrangement for added security
- Castors wheels / Leveling Feet
- Height (H): 15U – 48U
- Width (W): 600mm, 800mm, 1000mm
- Depth (D): 600mm, 800mm, 1000mm
- 25 Years System Warranty

CABINET DME

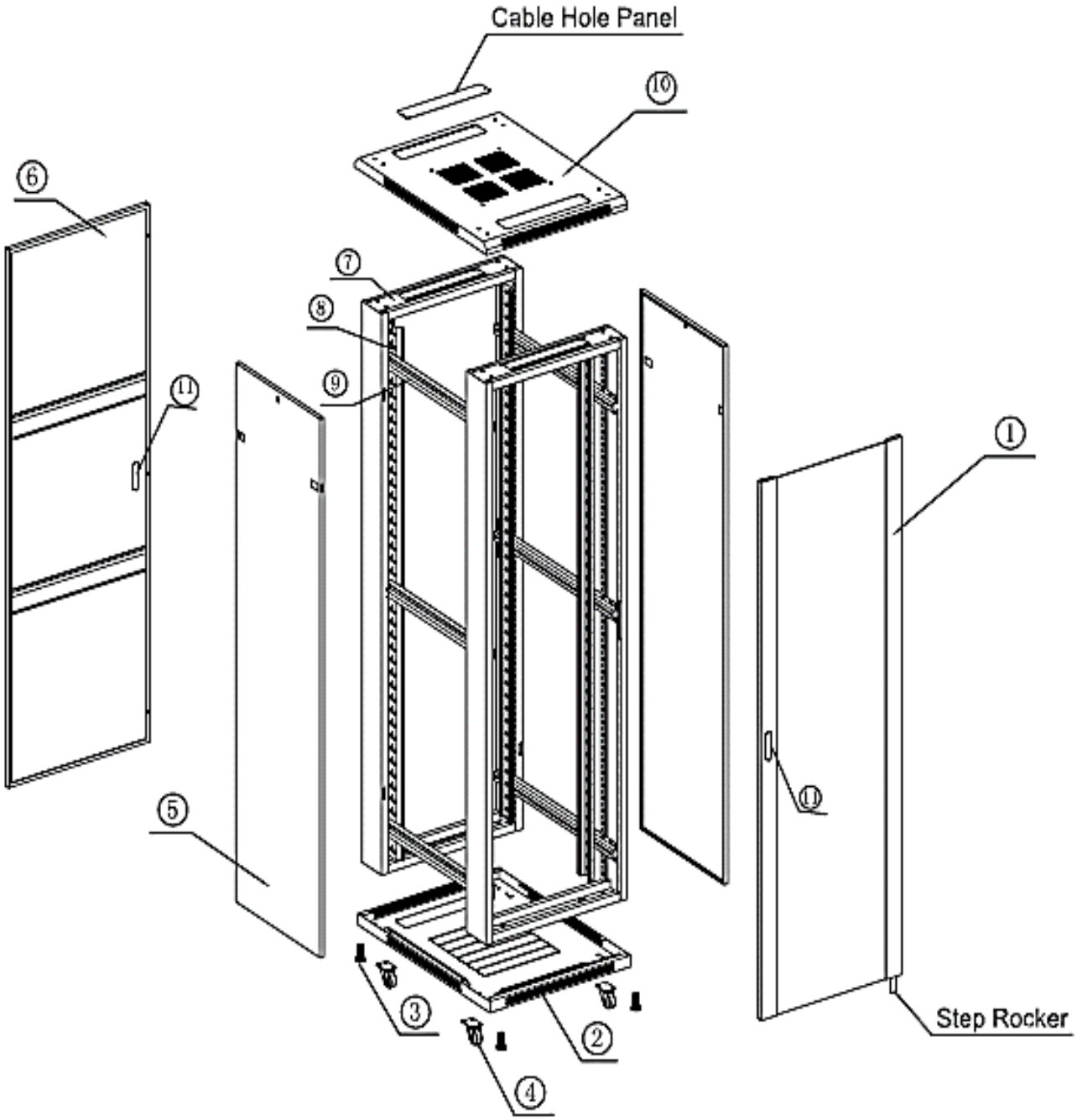
CE

25 YEARS SYSTEM WARRANTY

TÜV SÜD

RoHS COMPLIANT

DME PROLINK Floor Mount Cabinet
Front Glass Door | Rear Solid Metal Door



1 Front Door	2 Base	3 Adjustable Feet
4 Castors	5 Side Door	6 Rear Door
7 Frame	8 Mounting Rail	9 Mounting angle
10 Top Cover	11 Lock	

DME PROLINK
CONNECTING THE GLOBE

DME PROLINK Floor Mount Cabinet Front Glass Door | Rear Solid Metal Door

No.	Specification	Qty.	Unit	Material	Surface Finish	Remark
1	Top Cover	1	PCS	SPCC Cold rolled steel 1.0 or1.2	Powder coated	600mm depth for 1.0mm, above is 1.2mm
2	Bottom panel	1	PCS	SPCC Cold rolled steel 1.0 or1.2	Powder coated	600mm depth for 1.0mm, above is1.2mm
3	Mounting Profile	4	PCS	SPCC Cold rolled steel 1.5 or 1.8	Powder coated	
4	Mounting angle	6	PCS	SPCC Cold rolled steel 1.5	Powder coated	4pcs of lower 32U
5	Toughened glass or mesh front door	1	PCS	SPCC 1.5/Toughened glass5.0	Powder coated	High Density vented door/ sheet steel door/ double section high density vented door optional
6	Frame	2	PCS	SPCC Cold rolled steel 1.2	Powder coated	/
7	Fan unit	1	PCS	SPCC Cold rolled steel 1.0	Powder coated	/
8	Fan	2	PCS	120*120*38mm	/	4pcs for over 600 width and 600 depth
9	Side panel	2	PCS	SPCC Cold rolled steel 1.0 or 1.2	Powder coated	600mm or 800mm depth for 1.0mm, above is 1.2mm
10	Rear door	1	PCS	SPCC Cold rolled steel 1.0 or 1.2	Powder coated	600mm or 800mm width for 1.0mm, above is 1.2mm
11	Spring lock	1	PCS	/	/	with 2 keys
12	Small round lock	1	PCS	/	Nickel coated	with 2 keys
13	M6 Screw and Square Nuts	20	SET	steel	Zinc coated	40sets for over 32U
14	Adjustable feet	4	PCS	steel	Zinc coated	/
15	Wheels	4	PCS	/	/	/

DME PROLINK Floor Mount Cabinet
Front Glass Door | Rear Solid Metal Door

D	3	2	x	-	h	w	d	s	p	f	c

x	Pin assigned by ECS
0-9	Inventory Management Index

h	Height
15	15U
22	22U
27	27U
32	32U
37	37U
42	42U
45	45U
47	47U
48	48U

w	Width
60	600
80	800
100	1000

d	Depth
60	600
80	800
100	1000

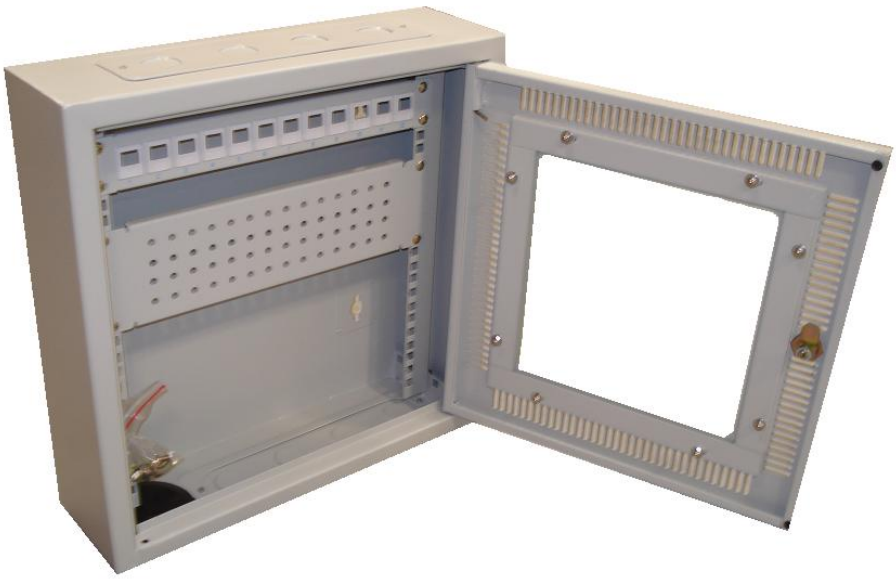
s	Number of Shelves
1	1 Shelf
2	2 Shelves
3	3 Shelves

p	Number of PDU's
1	1 x 6-Way PDU
2	2 x 6-Way PDU's
S1	1x 12-Way PDU (13A) & 1x 12-Way PDU (16A)

f	Fans
0	No Fans
4	4 Fans

c	Color
WT	White
BK	Black
GY	Grey
BG	Beige

DME PROLINK Wall Mount Cabinet Front Glass Door | with 12-Port Patch Panel and Mounting Plate



Description

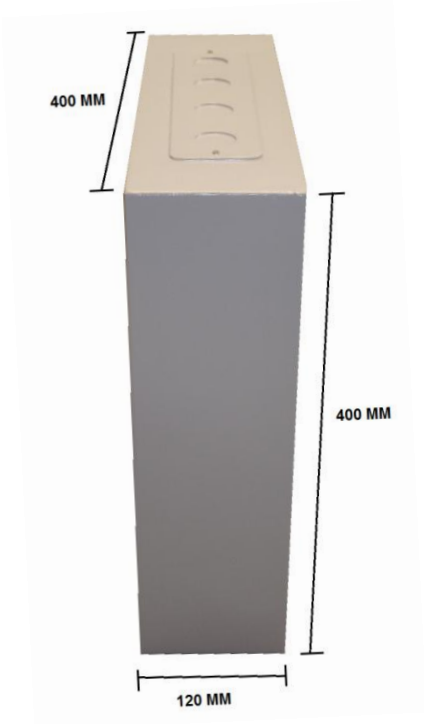
DME PROLINK's Optical Network Termination (ONT) Cabinet is designed and fabricated in accordance with global Service Provider requirements and conforms precisely to Du and Etisalat FTTx specifications. The robust and durable design makes it easy to install and maintain.

Features & Benefits

- Dimensions: 8U (400mm) x 400mm x 120mm (HxWxD)
- 4 Entry points on a removable cable entry knockout plate on Top and Bottom.
- Front Tempered Glass Door with Steel Side Panels
- Adjustable 19" Mounting Profile
- Aesthetic design with Ventilation Holes
- Comes with Universal Standard Key & Lock
- Inner mounting Plate with Grid Holes
- 12-Port Built-in Empty Patch Panel
- 25 Years System Warranty

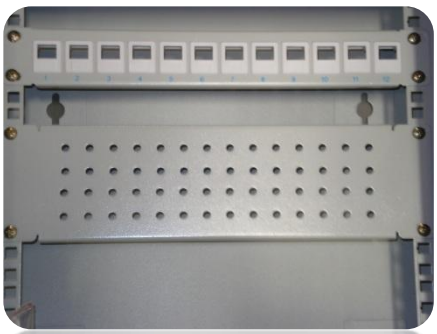
DME PROLINK Wall Mount Cabinet Front Glass Door | with 12-Port Patch Panel and Mounting Plate

Side View



4 cable entry holes on a removable Cable entry Knockout plate on Top and Bottom

Mounting Plate and 12-port Empty patch panel



Lock

D	3	3	x	-	h	w	d	l	c

x	Pin assigned by ECS
0-9	Inventory Management Index

h	Height
08	8U

w	Width
40	400

d	Depth
12	120

l	Lock
Y	With Lock
N	Without Lock

c	Color
WT	Traffic White (RAL 9016)
GY	Light Grey (RAL 7035)
PW	Pure White (RAL 9010)
CR	Cream (RAL 9001)
PG	Pebble Grey (RAL 7032)
GW	Grey White (RAL 9002)

Part Number

D335-084012YGY	Cabinet, ONT, 8RU, 400 Wide, 120 Deep, with Lock, Grey

DME PROLINK Flush Mount Cabinet Perforated Metal Door | with 12-Port Patch Panel 12U, 425mm (W) x 120mm (D)

Description

DME PROLINK's Optical Network Termination (ONT) Cabinet is designed and fabricated in accordance with global Service Provider requirements and conforms precisely to Du and Etisalat FTTx specifications. The robust and durable design makes it easy to install and maintain. This flush mount wall cabinet is available in a range of colors and dimensions to suit any number of user applications.

Features & Benefits

- Dimensions: 12U with Frame
- 600mm x 425mm (H x W) at rear of the cabinet and Depth 120mm (D)
- 6 Entry points on a removable cable entry knockout plate at Bottom.
- Perforated Metal Door
- 12port Unloaded Patch Panel provided with the cabinet.
- Provision for fixing 24-port Copper Patch Panel
- Inner-mounting plate with Grid Mount on the backside of the cabinet.
- Knock out Plate for 2 Power Sockets
- Aesthetic design with Ventilation Holes
- Comes with Universal Standard Key & Lock
- 25 Years System Warranty

DME PROLINK Flush Mount Cabinet Perforated Metal Door | with 12-Port Patch Panel 12U, 425mm (W) x 120mm (D)

Knockout for Power Outlet

Adjustable Hinges for fixing patch panel

6 cable entry holes on a removable Cable entry Knockout plate at Bottom

12-Port Unloaded Patch Panel with screws

DME PROLINK Flush Mount Cabinet Perforated Metal Door | with 12-Port Patch Panel 12U, 425mm (W) x 120mm (D)

D	3	3	x	-	h	w	d	l	c

x	Pin assigned by ECS
0-9	Inventory Management Index

h	Height
12	12U

w	Width
42	425

d	Depth
12	120

l	Lock
Y	With Lock
N	Without Lock

c	Color
WT	Traffic White (RAL 9016)
GY	Light Grey (RAL 7035)
PW	Pure White (RAL 9010)
CR	Cream (RAL 9001)
PG	Pebble Grey (RAL 7032)
GW	Grey White (RAL 9002)

Part Number (Example)

D335-124212YGY	Cabinet, Flush Mount ONT, 12RU, 425 Wide, 120 Deep, with Lock, with Frame, with 12-port Patch Panel and Inner mounting Back Plate, Grey (RAL7035)

DME PROLINK Flush Mount Cabinet Front Glass Door | with Mounting Plate 12U, 600mm (W) x 150mm (D)

Description

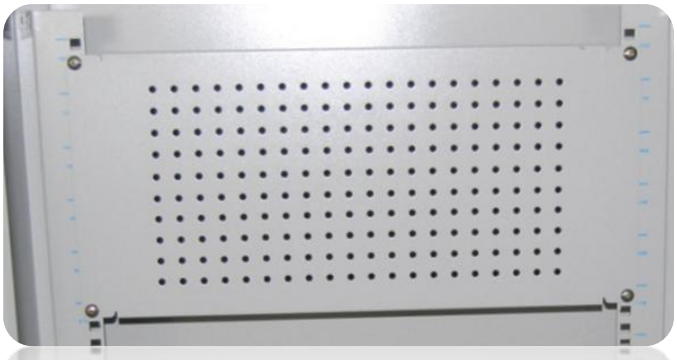
DME PROLINK's Optical Network Termination (ONT) Cabinet is designed and fabricated in accordance with global Service Provider requirements and conforms precisely to Du and Etisalat FTTx specifications. The robust and durable design makes it easy to install and maintain. This flush mount wall cabinet is available in a range of colors and dimensions to suit any number of user applications.

Features & Benefits

- Dimensions: 12U with Frame Dimension 636mm x 636mm (H x W)
- 600mm x 600mm (H x W) at rear of the cabinet and Depth 150mm (D)
- 5 Entry points on a removable cable entry knockout plate on Top and Bottom.
- Front Tempered Glass Door with Steel Side Panels
- Adjustable 19" Mounting Profile
- Aesthetic design with Ventilation Holes
- Comes with Universal Standard Key & Lock
- Inner mounting Plate with Grid Holes
- 25 Years System Warranty

Lock

5U Inner Mounting Plate with Grid Holes



5 cable entry holes on a removable Cable entry Knockout plate on Top and Bottom

DME PROLINK Flush Mount Cabinet Front Glass Door | with Mounting Plate 12U, 600mm (W) x 150mm (D)

D	3	3	x	-	h	w	d	l	c

x	Pin assigned by ECS
0-9	Inventory Management Index

h	Height
12	12U

w	Width
60	600

d	Depth
15	150

l	Lock
Y	With Lock
N	Without Lock

c	Color
WT	Traffic White (RAL 9016)
GY	Light Grey (RAL 7035)
PW	Pure White (RAL 9010)
CR	Cream (RAL 9001)
PG	Pebble Grey (RAL 7032)
GW	Grey White (RAL 9002)
OW	Off White (S0502-Y)

Part Number (Example)

D335-126015YGY	Cabinet, Flush Mount ONT, 12RU, 600 Wide, 150 Deep, with Lock, with Frame, Grey (RAL7035)
D335-126015YPW	Cabinet, Flush Mount ONT, 12RU, 600 Wide, 150 Deep, with Lock, Pure White (RAL9010)
D335-126015YGW	Cabinet, Flush Mount ONT, 12RU, 600 Wide, 150 Deep, with Lock, with Frame, Grey White (RAL9002)
D335-126015YOW	Cabinet, Flush Mount ONT, 12RU, 600 Wide, 150 Deep, with Lock, with Frame, Off White (NCS Color Code : S0502-Y)

DME PROLINK Surface Mount Cabinet Front Glass Door | 12U, 600mm (W) x 150mm (D)

Description

DME PROLINK's Optical Network Termination (ONT) Cabinet is designed and fabricated in accordance with global Service Provider requirements and conforms precisely to Du and Etisalat FTTx specifications. The robust and durable design makes it easy to install and maintain. This flush mount wall cabinet is available in a range of colors and dimensions to suit any number of user applications.

Features & Benefits

- Dimensions: 12U 600mm x 600mm (H x W) at rear of the cabinet and Depth 150mm (D)
- 4 Entry points on Top and Bottom.
- Front Tempered Glass Door with Steel Side Panels
- Adjustable 19" Mounting Profile
- Aesthetic design with Ventilation Holes
- Comes with Universal Standard Key & Lock
- Inner mounting Plate with Grid Holes should be ordered separately
- 25 Years System Warranty

DME PROLINK Surface Mount Cabinet Front Glass Door | 12U, 600mm (W) x 150mm (D)

D	3	3	x	-	h	w	d	l	SM	c

x	Pin assigned by ECS
0-9	Inventory Management Index

h	Height
12	12U

w	Width
60	600

d	Depth
15	150

l	Lock
Y	With Lock
N	Without Lock

c	Color
WT	Traffic White (RAL 9016)
GY	Light Grey (RAL 7035)
PW	Pure White (RAL 9010)
CR	Cream (RAL 9001)
PG	Pebble Grey (RAL 7032)
GW	Grey White (RAL 9002)

Part Number (Example)

D335-126015YSMGY	Cabinet, Surface Mount ONT, 12RU, 600 Wide, 150 Deep, with Lock, Grey (RAL7035)
D335-126015YSMPW	Cabinet, Surface Mount ONT, 12RU, 600 Wide, 150 Deep, with Lock, Pure White (RAL9010)
D335-126015YSMTW	Cabinet, Surface Mount ONT, 12RU, 600 Wide, 150 Deep, with Lock, Traffic White (RAL9016)

DME PROLINK
CONNECTING THE GLOBE

DME PROLINK Wall Mount Cabinet
Front Glass Door | with 19” Mounted Shelf
12U, 600mm (W) x 300mm (D)

RoHS COMPLIANT

TÜV SÜD

CE

25 YEARS SYSTEM WARRANTY

CABINET DME

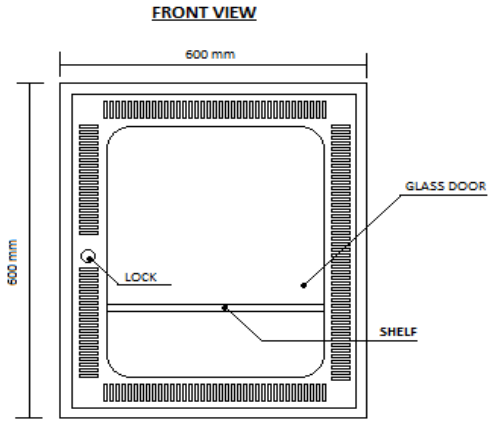
Description

DME PROLINK’s Optical Network Termination (ONT) Cabinet is designed and fabricated in accordance with global Service Provider requirements and conforms precisely to Du and Etisalat FTTx specifications. The robust and durable design makes it easy to install and maintain. This flush mount wall cabinet is available in a range of colors and dimensions to suit any number of user applications.

Features & Benefits

- Dimensions: 12U Height; 600mm x 300mm (W x D)
- 5 Entry points on a removable cable entry knockout plate on Top and Bottom.
- Tempered Glass door with Steel side panels.
- 19” Mountable Shelf provided with the cabinet.
- Aesthetic design with Ventilation Holes
- Comes with Universal Standard Key & Lock
- 25 Years System Warranty

DME PROLINK Wall Mount Cabinet
Front Glass Door | with 19” Mounted Shelf
12U, 600mm (W) x 300mm (D)



D	3	3	x	-	h	w	d	l	c

x	Pin assigned by ECS
0-9	Inventory Management Index

h	Height
12	12U

w	Width
60	600

d	Depth
30	300

l	Lock
Y	With Lock
N	Without Lock

c	Color
WT	Traffic White (RAL 9016)
GY	Light Grey (RAL 7035)
PW	Pure White (RAL 9010)
CR	Cream (RAL 9001)
PG	Pebble Grey (RAL 7032)
GW	Grey White (RAL 9002)

Part Number (Example)

D335-126030YGY	Cabinet, Wall Mount ONT, 12RU, 600 Wide, 300 Deep, with Lock, with Shelf, Light Grey (RAL7035)
D335-126030YPW	Cabinet, Wall Mount ONT, 12RU, 600 Wide, 300 Deep, with Lock, with shelf, Pure White (RAL9010)
D335-126030YTW	Cabinet, Wall Mount ONT, 12RU, 600 Wide, 300 Deep, with Lock, with shelf, Traffic White (RAL9016)

DME PROLINK
CONNECTING THE GLOBE

DME PROLINK Wall Mount Cabinet
Front Glass Door | with 19" Mounted Shelf
12U, 600mm (W) x 350mm (D)

RoHS COMPLIANT

TÜV SÜD

CE

25 YEARS SYSTEM WARRANTY

CABINET DME

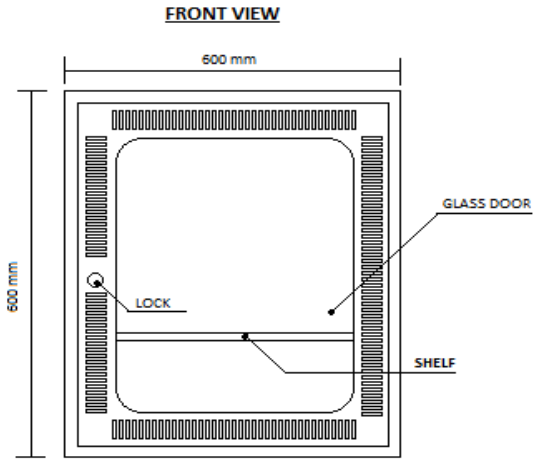
Description

DME PROLINK's Optical Network Termination (ONT) Cabinet is designed and fabricated in accordance with global Service Provider requirements and conforms precisely to Common Du and Etisalat FTTx specifications. The robust and durable design makes it easy to install and maintain. This flush mount wall cabinet is available in a range of colors and dimensions to suit any number of user applications.

Features & Benefits

- Dimensions: 12U Height; 600mm x 350mm (W x D)
- 5 Entry points on a removable cable entry knockout plate on Top and Bottom.
- Tempered Glass door with Steel side panels. (Perforated Door options available)
- 2 Nos. of 19" Mountable Shelves provided within the cabinet.
- Aesthetic design with Ventilation Holes
- Comes with Universal Standard Key & Lock
- 25 Years System Warranty

DME PROLINK Wall Mount Cabinet
Front Glass Door | with 19” Mounted Shelf
12U, 600mm (W) x 350mm (D)



D	3	3	x	-	h	w	d	l	c

x	Pin assigned by ECS
0-9	Inventory Management Index

h	Height
12	12U

w	Width
60	600

d	Depth
35	350

l	Lock
Y	With Lock
N	Without Lock

c	Color
WT	Traffic White (RAL 9016)
GY	Light Grey (RAL 7035)
PW	Pure White (RAL 9010)
CR	Cream (RAL 9001)
PG	Pebble Grey (RAL 7032)
GW	Grey White (RAL 9002)

Part Number (Example)

D335-126035YGY	Cabinet, Wall Mount ONT, 12RU, 600 Wide, 350 Deep, with Lock, with 2 shelves, Light Grey (RAL7035)
D335-126035YPW	Cabinet, Wall Mount ONT, 12RU, 600 Wide, 350 Deep, with Lock, with 2 shelves, Pure White (RAL9010)
D335-126035YTW	Cabinet, Wall Mount ONT, 12RU, 600 Wide, 350 Deep, with Lock, with 2 shelves, Traffic White (RAL9016)