Customer Specification

USA FIBER OPTIC OUTSIDE PLANT FIBER OPTIC CABLE MASTER SPECIFICATION

I. GENERAL SPECIFICATIONS

1. Cable Color

A. Outer Jacket

a. All cables disregarding fiber : Black

B. Subunit Color

a. According to TIA/EIA 598-B Standard (BLU-AQU).

C. Fiber identification

a. According to TIA/EIA 598-B Standard (BLU-AQU).

2. Construction Notes

A. Jacket Material

a. All cables shall use UV and Fungus growth resistant compounds in the MDPE (Medium Density Polyethylene) outer jacket.

B. Ripcords

a. All jacketed cable component shall have a ripcord placed longitudinally.

C. Core elements

a. All cables shall have a combination of yarns + water blocking tapes to assure correct operation of the cable in outdoor environments.

D. Cable Binders and CSM

a. All cables shall have either a WB CSM or WB binders wrapped around CSM that assures correct operation of the cable in outdoor environments.

E. Gel Filling

a. All subunits containing fibers shall be filled with gel in order to assure correct operation of the cable in outdoor environments.

F. Corrugated Armor

a. Armor overlap shall be at least 25% and shall be made of steel with one coated side for adhesion to MDPE jacket to provide a moisture/chemical barrier to the cable's core.

3. Cable Marking

A. The print legend is standard Siemon and is applied in white hot foil ink on the cable surface.

Customer Specification

USA FIBER OPTIC OUTSIDE PLANT FIBER OPTIC CABLE MASTER SPECIFICATION

Cable Construction Specifications 2 – 16 Fibers

Fiber Count	2		4		6		8		12		16	
Flame Rating	All dielectric	Armored	All dielectric	Armored	All dielectric	Armored	All dielectric	Armored	All dielectric	Armored	All dielectric	Armored
Subunit #	1	1	1	1	1	1	1	1	1	1	4	4
Fibers / subunit	2	2	4	4	6	6	8	8	12	12	4	4
Central Strength Member	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Upjacketed CSM	No	No	No	No	No	No	No	No	No	No	No	No
Fillers	4	4	4	4	4	4	4	4	4	4	1	1
Nominal Outside diameter (in)	0.4638	0.5088	0.4638	0.5088	0.4638	0.5088	0.4638	0.5088	0.4638	0.5088	0.4638	0.5088
Nominal Outside diameter (mm)	11.78	12.92	11.78	12.92	11.78	12.92	11.78	12.92	11.78	12.92	11.78	12.92
Nominal Outer Jacket thickness (in)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Nominal Outer Jacket thickness (mm)	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
Temperature Installation (°C) Min	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30
Temperature Installation (°C) Max	70	70	70	70	70	70	70	70	70	70	70	70
Temperature Operating (°C) Min	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40
Temperature Operating (°C) Max	70	70	70	70	70	70	70	70	70	70	70	70
Temperature Storage (°C) Min	-40	-50	-40	-50	-40	-50	-40	-50	-40	-50	-40	-50
Temperature Storage (°C) Max	70	70	70	70	70	70	70	70	70	70	70	70
Max Tensile Load Installation (lbs)	600	600	600	600	600	600	600	600	600	600	600	600
Max Tensile Load Installation (N)	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666
Max Tensile Load Service (lbs)	200	200	200	200	200	200	200	200	200	200	200	200
Max Tensile Load Service (N)	889	889	889	889	889	889	889	889	889	889	889	889
Min. Bend Radius Installation (in)	9.3	20.4	9.3	20.4	9.3	20.4	9.3	20.4	9.3	20.4	9.3	20.4
Min. Bend Radius Service (in)	4.638	10.176	4.638	10.176	4.638	10.176	4.638	10.176	4.638	10.176	4.638	10.176

Customer Specification

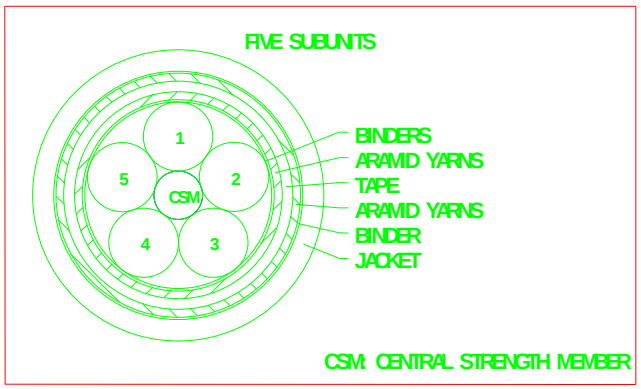
USA FIBER OPTIC OUTSIDE PLANT FIBER OPTIC CABLE MASTER SPECIFICATION

Cable Construction Specifications 24 – 144 Fibers

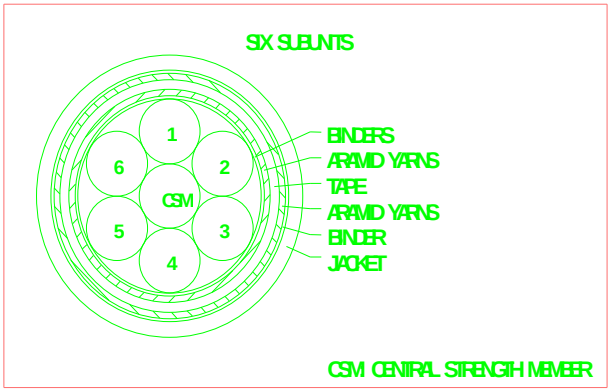
Fiber Count	24		36		48		72		96		144	
Flame Rating	All dielectric	Armored	All dielectric	Armored	All dielectric	Armored	All dielectric	Armored	All dielectric	Armored	All dielectric	Armored
Subunit #	4	4	3	3	4	4	6	6	8	8	12	12
Fibers / subunit	6	6	12	12	12	12	12	12	12	12	12	12
Central Strength Member	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Upjacketed CSM	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes
Fillers	1	1	2	2	1	1	0	0	0	0	0	0
Nominal Outside diameter (in)	0.4638	0.5088	0.4638	0.5088	0.4638	0.5088	0.4931	0.537	0.5808	0.624	0.715	0.754
Nominal Outside diameter (mm)	11.78	12.92	11.78	12.92	11.78	12.92	12.52	13.64	14.75	15.85	18.16	19.15
Nominal Outer Jacket thickness (in)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07
Nominal Outer Jacket thickness (mm)	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.78	1.78	1.78	1.78
Temperature Installation (°C) Min	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30
Temperature Installation (°C) Max	70	70	70	70	70	70	70	70	70	70	70	70
Temperature Operating (°C) Min	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40
Temperature Operating (°C) Max	70	70	70	70	70	70	70	70	70	70	70	70
Temperature Storage (°C) Min	-40	-50	-40	-50	-40	-50	-40	-50	-40	-50	-40	-50
Temperature Storage (°C) Max	70	70	70	70	70	70	70	70	70	70	70	70
Max Tensile Load Installation (lbs)	600	600	600	600	600	600	600	600	600	600	600	600
Max Tensile Load Installation (N)	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666
Max Tensile Load Service (lbs)	200	200	200	200	200	200	200	200	200	200	200	200
Max Tensile Load Service (N)	889	889	889	889	889	889	889	889	889	889	889	889
Min. Bend Radius Installation (in)	9.3	20.4	9.3	20.4	9.3	20.4	9.9	21.5	11.6	25	14.3	30.2
Min. Bend Radius Service (in)	4.638	10.176	4.638	10.176	4.638	10.176	4.931	10.74	5.808	12.48	7.15	15.08

Diagrams

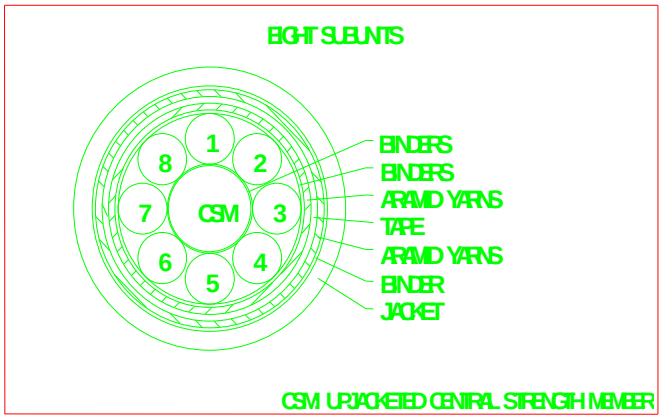
Five-Subunit Cables (All Dielectric)(Substitute with loose tube or fillers per specification)(2-48 Fibers)



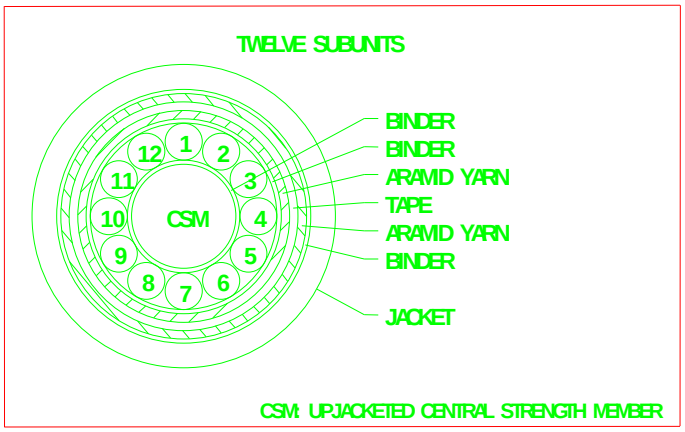
Six-Subunit Cables (All Dielectric) (Substitute with loose tube or fillers per specification) (72 Fibers)



Eight-Subunit Cables (All Dielectric) (96-Fibers)

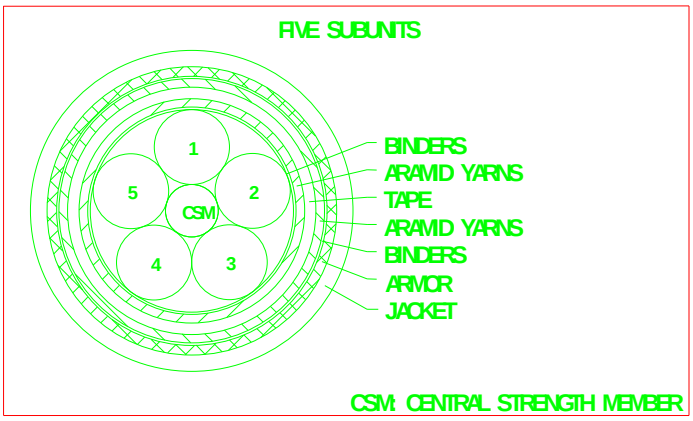


Twelve-Subunit Cables (All Dielectric) (144-Fibers)



Note: Same diagrams shown above for 2-144F apply to armored cables only with the addition of the armor between the outer jacket and the last binder application. Example shown below:

Five-Subunit Cables
(Armored)
(Substitute with loose tube or fillers per specification)
(2-48 Fibers)



Customer Specification

USA FIBER OPTIC OUTSIDE PLANT FIBER OPTIC CABLE MASTER SPECIFICATION

FIBER OPTICAL SPECIFICATIONS:

FIBER: 8.3/125/250 XGLO SINGLEMODE

FIBER SPECIFICATIONS:

CORE DIAMETER:	8.3 µm
MODE FIELD DIAMETER:	9.30 ± 0.50 µm @ 1310 nm 10.50 ± 1.00 µm @ 1550 nm
CLADDING DIAMETER:	125.0 ± .7 µm
CORE-CLAD CONCENTRICITY:	≤ 0.5 µm
CLADDING NON-CIRCULARITY:	≤ 1.0%
COATING DIAMETER:	245-260 µm
COATING/CLADDING CONCENTRICITY ERROR:	< 12 µm
PROOF TEST:	100 kpsi (0.70 GPa)
POINT DISCONTINUITY:	≤ 0.05 dB @ 1310 nm or 1550 nm
CABLE CUTOFF WAVELENGTH (λ_{cc}):	< 1260 nm
ZERO DISPERSION WAVELENGTH (λ_o):	1302-1322 nm
MAX. DISPERSION SLOPE (S_o)at λ_o:	≤ 0.092 ps/nm^2-km)
EFFECTIVE GROUP INDEX OF REFRACTION:	1.466 @ 1310nm 1.467 @ 1550nm
FIBER CURL:	≥ 4 m

OPTICAL SPECIFICATIONS:

MAX ATTENUATION:	0.50 dB/km @ 1310 nm 0.50 dB/km @ 1550 nm
VS WAVELENGTH:	≤ 0.03 dB/km @ 1285 - 1330 nm ≤ 0.02 dB/km @ 1525 - 1575 nm
NUMERICAL APERTURE:	0.13

FIBER OPTICAL SPECIFICATIONS:

FIBER: 50/125/250 LIGHTSYSTEM GRADED INDEX FIBER

FIBER SPECIFICATIONS:

CORE DIAMETER	50.0 ± 3.0 µm
CLADDING DIAMETER	125.0 ± 2.0 µm
CORE-CLAD CONCENTRICITY	< 1.5 µm
CORE NON-CIRCULARITY	≤ 5.0%
CLADDING NON-CIRCULARITY	< 1.0%
COATING DIAMETER	245 ± 10 µm
COATING-CLADDING CONCENTRICITY	< 12 µm
PROOF TEST	100 kpsi (0.70 GN/m^2)
POINT DISCONTINUITY	≤ 0.20 dB @ 850 nm and 1300 nm
ZERO DISPERSION WAVELENGTH (λ_o)	1297 nm ≤ λ_o ≤ 1316 nm
ZERO DISPERSION SLOPE (S_o)	≤ 0.101 ps/(nm^2 • km)

OPTICAL SPECIFICATIONS:

MAX ATTENUATION	3.25 dB/km @ 850 nm 1.0 dB/km @ 1300 nm
AT WATER PEAK	≤ 3.0 dB/km over ATT @1300nm
MIN BANDWIDTH	500 Mhz-km @ 850 nm 500 Mhz-km @ 1300 nm
NUMERICAL APERTURE	0.200 ± 0.015

Customer Specification

USA FIBER OPTIC OUTSIDE PLANT FIBER OPTIC CABLE MASTER SPECIFICATION

FIBER OPTICAL SPECIFICATIONS:

FIBER: 50/125/250 XGLO FIBER 300 (300 METER)

FIBER SPECIFICATIONS:

CORE DIAMETER	50 ± 3.0 µm
CLADDING DIAMETER	125.0 ± 2.0 µm
CORE-CLAD CONCENTRICITY	≤ 1.5 µm
CORE NON-CIRCULARITY	≤ 5.0%
CLADDING NON-CIRCULARITY	< 1.0%
COATING DIAMETER	245 ± 5 µm
COATING-CLADDING CONCENTRICITY	< 12 µm
PROOF TEST	≥ 100 kpsi (0.70 GN/m^2)
POINT DISCONTINUITY	≤ 0.20 dB @ 850 nm and 1300 nm
ZERO DISPERSION WAVELENGTH (λ_o)	1300 nm ≤ λ_o ≤ 1320 nm
ZERO DISPERSION SLOPE (S_o)	≤ 0.101 ps/(nm^2 • km)

OPTICAL SPECIFICATIONS:

MAX ATTENUATION	3.0 dB/km @ 850 nm 1.0 dB/km @ 1300 nm
AT WATER PEAK	≤ 3.0 dB/km over ATT @1300nm
LED-BASED SOURCES: MIN BANDWIDTH OVERFILLED LAUNCH (OFL)	≥ 1500 Mhz-km @ 850 nm ≥ 500 Mhz-km @ 1300 nm
LASER-BASED SOURCES: MIN BANDWIDTH EFFECTIVE MODAL BANDWIDTH	≥ 2000 Mhz km @ 850 nm n/s @ 1300 nm
GIGABIT ETHERNET DISTANCE	10Gb/s over 300m @ 850 nm
NUMERICAL APERTURE	0.200 ± 0.015

Customer Specification

USA FIBER OPTIC OUTSIDE PLANT FIBER OPTIC CABLE MASTER SPECIFICATION

FIBER OPTICAL SPECIFICATIONS:

FIBER: 50/125/250 XGLO 550 FIBER (550 METER)

FIBER SPECIFICATIONS:

CORE DIAMETER	50 ± 3.0 µm
CLADDING DIAMETER	125.0 ± 2.0 µm
CORE-CLAD CONCENTRICITY	≤ 1.5 µm
CORE NON-CIRCULARITY	≤ 5.0%
CLADDING NON-CIRCULARITY	< 1.0%
COATING DIAMETER	245 ± 5 µm
COATING-CLADDING CONCENTRICITY	< 12 µm
PROOF TEST	≥ 100 kpsi (0.70 GN/m^2)
POINT DISCONTINUITY	≤ 0.20 dB @ 850 nm and 1300 nm
ZERO DISPERSION WAVELENGTH (λ_o)	1300 nm ≤ λ_o ≤ 1320 nm
ZERO DISPERSION SLOPE (S_o)	≤ 0.101 ps/(nm^2 • km)

OPTICAL SPECIFICATIONS:

MAX ATTENUATION	3.00 dB/km @ 850 nm 1.0 dB/km @ 1300 nm
AT WATER PEAK	≤ 3.0 dB/km over ATT @1300 nm
LED-BASED SOURCES: MIN BANDWIDTH OVERFILLED LAUNCH (OFL)	≥ 1500 Mhz-km @ 850 nm ≥ 500 Mhz-km @ 1300 nm
LASER-BASED SOURCES: MIN BANDWIDTH EFFECTIVE MODAL BANDWIDTH	≥ 4700 Mhz km @ 850 nm n/s @ 1300 nm
GIGABIT ETHERNET DISTANCE	10Gb/s over 550m @ 850 nm
NUMERICAL APERTURE	0.200 ± 0.015

Customer Specification

USA FIBER OPTIC OUTSIDE PLANT FIBER OPTIC CABLE MASTER SPECIFICATION

FIBER OPTICAL SPECIFICATIONS:

FIBER: 62.5/125/250 LIGHTSYSTEM GRADED INDEX FIBER

CORE DIAMETER	62.5 ± 3.0 µm
CLADDING DIAMETER	125.0 ± 2.0 µm
CORE-CLAD CONCENTRICITY	≤ 3.0 µm
CORE NON-CIRCULARITY	≤ 5.0%
CLADDING NON-CIRCULARITY	< 2.0%
COATING DIAMETER	245 ± 10 µm
COATING-CLADDING CONCENTRICITY	< 12 µm
PROOF TEST	100 kpsi (0.70 GN/m^2)
POINT DISCONTINUITY	≤ 0.20 dB @ 850 nm and 1300 nm
ZERO DISPERSION WAVELENGTH (λ_o)	1332 nm ≤ λ_o ≤ 1354 nm
ZERO DISPERSION SLOPE (S_o)	≤ 0.097 ps/(nm^2 • km)

OPTICAL SPECIFICATIONS:

MAX ATTENUATION	3.5 dB/km @ 850 nm 1.0 dB/km @ 1300 nm
AT WATER PEAK	≤ 1.0 dB/km @ 1380 nm
MIN BANDWIDTH	200 Mhz-km @ 850 nm 500 Mhz-km @ 1300 nm
NUMERICAL APERTURE	0.275 ± 0.015

Customer Specification

USA FIBER OPTIC OUTSIDE PLANT FIBER OPTIC CABLE MASTER SPECIFICATION

PART NUMBER AND DESCRIPTION

Unit of measure: FEET

Example: 9PE5M012G-T301A (XGLO 300- MMF 50/125, NON ARMOR)

OUTSIDE PLANT NON ARMOR BASE P/N (FEET)	Strand count	Description: Loose tube, gel filed, MDPE, non armor jacket,black
9PE5M012G-T101A	12	Outdoor,loose tube,gel,MMF,50/125,Lightsystem,NON ARMOR,MDPE
9PE5M144G-T101A	144	Outdoor,loose tube,gel,MMF,50/125,Lightsystem,NON ARMOR,MDPE
9PE5M016C-T101A	16	Outdoor,loose tube,gel,MMF,50/125,Lightsystem,NON ARMOR,MDPE
9PE5M024D-T101A	24	Outdoor,loose tube,gel,MMF,50/125,Lightsystem,NON ARMOR,MDPE
9PE5M002B-T101A	2	Outdoor,loose tube,gel,MMF,50/125,Lightsystem,NON ARMOR,MDPE
9PE5M036G-T101A	36	Outdoor,loose tube,gel,MMF,50/125,Lightsystem,NON ARMOR,MDPE
9PE5M048G-T101A	48	Outdoor,loose tube,gel,MMF,50/125,Lightsystem,NON ARMOR,MDPE
9PE5M004C-T101A	4	Outdoor,loose tube,gel,MMF,50/125,Lightsystem,NON ARMOR,MDPE
9PE5M006D-T101A	6	Outdoor,loose tube,gel,MMF,50/125,Lightsystem,NON ARMOR,MDPE
9PE5M072G-T101A	72	Outdoor,loose tube,gel,MMF,50/125,Lightsystem,NON ARMOR,MDPE
9PE5M008E-T101A	8	Outdoor,loose tube,gel,MMF,50/125,Lightsystem,NON ARMOR,MDPE
9PE5M096G-T101A	96	Outdoor,loose tube,gel,MMF,50/125,Lightsystem,NON ARMOR,MDPE
9PE5M012G-T301A	12	Outdoor,loose tube,gel,MMF,50/125,XGLO 300,NON ARMOR,MDPE
9PE5M144G-T301A	144	Outdoor,loose tube,gel,MMF,50/125,XGLO 300,NON ARMOR,MDPE
9PE5M016C-T301A	16	Outdoor,loose tube,gel,MMF,50/125,XGLO 300,NON ARMOR,MDPE
9PE5M024D-T301A	24	Outdoor,loose tube,gel,MMF,50/125,XGLO 300,NON ARMOR,MDPE
9PE5M002B-T301A	2	Outdoor,loose tube,gel,MMF,50/125,XGLO 300,NON ARMOR,MDPE
9PE5M036G-T301A	36	Outdoor,loose tube,gel,MMF,50/125,XGLO 300,NON ARMOR,MDPE
9PE5M048G-T301A	48	Outdoor,loose tube,gel,MMF,50/125,XGLO 300,NON ARMOR,MDPE
9PE5M004C-T301A	4	Outdoor,loose tube,gel,MMF,50/125,XGLO 300,NON ARMOR,MDPE
9PE5M006D-T301A	6	Outdoor,loose tube,gel,MMF,50/125,XGLO 300,NON ARMOR,MDPE
9PE5M072G-T301A	72	Outdoor,loose tube,gel,MMF,50/125,XGLO 300,NON ARMOR,MDPE
9PE5M008E-T301A	8	Outdoor,loose tube,gel,MMF,50/125,XGLO 300,NON ARMOR,MDPE
9PE5M096G-T301A	96	Outdoor,loose tube,gel,MMF,50/125,XGLO 300,NON ARMOR,MDPE
9PE6M012G-G101A	12	Outdoor,loose tube,gel,MMF,62.5,Lightsystem,NON ARMOR,MDPE
9PE6M144G-G101A	144	Outdoor,loose tube,gel,MMF,62.5,Lightsystem,NON ARMOR,MDPE
9PE6M016C-G101A	16	Outdoor,loose tube,gel,MMF,62.5,Lightsystem,NON ARMOR,MDPE
9PE6M024D-G101A	24	Outdoor,loose tube,gel,MMF,62.5,Lightsystem,NON ARMOR,MDPE
9PE6M002B-G101A	2	Outdoor,loose tube,gel,MMF,62.5,Lightsystem,NON ARMOR,MDPE
9PE6M036G-G101A	36	Outdoor,loose tube,gel,MMF,62.5,Lightsystem,NON ARMOR,MDPE
9PE6M048G-G101A	48	Outdoor,loose tube,gel,MMF,62.5,Lightsystem,NON ARMOR,MDPE
9PE6M004C-G101A	4	Outdoor,loose tube,gel,MMF,62.5,Lightsystem,NON ARMOR,MDPE
9PE6M006D-G101A	6	Outdoor,loose tube,gel,MMF,62.5,Lightsystem,NON ARMOR,MDPE
9PE6M072G-G101A	72	Outdoor,loose tube,gel,MMF,62.5,Lightsystem,NON ARMOR,MDPE
9PE6M008E-G101A	8	Outdoor,loose tube,gel,MMF,62.5,Lightsystem,NON ARMOR,MDPE
9PE6M096G-G101A	96	Outdoor,loose tube,gel,MMF,62.5,Lightsystem,NON ARMOR,MDPE
9PE8M012G-E201A	12	Outdoor,loose tube,gel,SMF,XGLO,NON ARMOR,MDPE
9PE8M144G-E201A	144	Outdoor,loose tube,gel,SMF,XGLO,NON ARMOR,MDPE
9PE8M016C-E201A	16	Outdoor,loose tube,gel,SMF,XGLO,NON ARMOR,MDPE
9PE8M024D-E201A	24	Outdoor,loose tube,gel,SMF,XGLO,NON ARMOR,MDPE
9PE8M002B-E201A	2	Outdoor,loose tube,gel,SMF,XGLO,NON ARMOR,MDPE
9PE8M036G-E201A	36	Outdoor,loose tube,gel,SMF,XGLO,NON ARMOR,MDPE
9PE8M048G-E201A	48	Outdoor,loose tube,gel,SMF,XGLO,NON ARMOR,MDPE
9PE8M004C-E201A	4	Outdoor,loose tube,gel,SMF,XGLO,NON ARMOR,MDPE
9PE8M006D-E201A	6	Outdoor,loose tube,gel,SMF,XGLO,NON ARMOR,MDPE
9PE8M072G-E201A	72	Outdoor,loose tube,gel,SMF,XGLO,NON ARMOR,MDPE
9PE8M008E-E201A	8	Outdoor,loose tube,gel,SMF,XGLO,NON ARMOR,MDPE
9PE8M096G-E201A	96	Outdoor,loose tube,gel,SMF,XGLO,NON ARMOR,MDPE

Customer Specification

USA FIBER OPTIC OUTSIDE PLANT FIBER OPTIC CABLE MASTER SPECIFICATION

PART NUMBER AND DESCRIPTION

Unit of measure: FEET

Example: 9PF5M012G-T301A (XGLO 300- MMF 50/125, ARMORED)

OUTSIDE PLANT ARMOR BASE P/N (FEET)	Strand count	Description: Loose tube, gel filed, MDPE, armor jacket,black
9PF5M012G-T101A	12	Outdoor,loose tube,gel,MMF,50/125,Lightsystem, ARMOR,MDPE
9PF5M144G-T101A	144	Outdoor,loose tube,gel,MMF,50/125,Lightsystem, ARMOR,MDPE
9PF5M016C-T101A	16	Outdoor,loose tube,gel,MMF,50/125,Lightsystem, ARMOR,MDPE
9PF5M024D-T101A	24	Outdoor,loose tube,gel,MMF,50/125,Lightsystem, ARMOR,MDPE
9PF5M002B-T101A	2	Outdoor,loose tube,gel,MMF,50/125,Lightsystem, ARMOR,MDPE
9PF5M036G-T101A	36	Outdoor,loose tube,gel,MMF,50/125,Lightsystem, ARMOR,MDPE
9PF5M048G-T101A	48	Outdoor,loose tube,gel,MMF,50/125,Lightsystem, ARMOR,MDPE
9PF5M004C-T101A	4	Outdoor,loose tube,gel,MMF,50/125,Lightsystem, ARMOR,MDPE
9PF5M006D-T101A	6	Outdoor,loose tube,gel,MMF,50/125,Lightsystem, ARMOR,MDPE
9PF5M072G-T101A	72	Outdoor,loose tube,gel,MMF,50/125,Lightsystem, ARMOR,MDPE
9PF5M008E-T101A	8	Outdoor,loose tube,gel,MMF,50/125,Lightsystem, ARMOR,MDPE
9PF5M096G-T101A	96	Outdoor,loose tube,gel,MMF,50/125,Lightsystem, ARMOR,MDPE
9PF5M012G-T301A	12	Outdoor,loose tube,gel,MMF,50/125,XGLO 300, ARMOR,MDPE
9PF5M144G-T301A	144	Outdoor,loose tube,gel,MMF,50/125,XGLO 300, ARMOR,MDPE
9PF5M016C-T301A	16	Outdoor,loose tube,gel,MMF,50/125,XGLO 300, ARMOR,MDPE
9PF5M024D-T301A	24	Outdoor,loose tube,gel,MMF,50/125,XGLO 300, ARMOR,MDPE
9PF5M002B-T301A	2	Outdoor,loose tube,gel,MMF,50/125,XGLO 300, ARMOR,MDPE
9PF5M036G-T301A	36	Outdoor,loose tube,gel,MMF,50/125,XGLO 300, ARMOR,MDPE
9PF5M048G-T301A	48	Outdoor,loose tube,gel,MMF,50/125,XGLO 300, ARMOR,MDPE
9PF5M004C-T301A	4	Outdoor,loose tube,gel,MMF,50/125,XGLO 300, ARMOR,MDPE
9PF5M006D-T301A	6	Outdoor,loose tube,gel,MMF,50/125,XGLO 300, ARMOR,MDPE
9PF5M072G-T301A	72	Outdoor,loose tube,gel,MMF,50/125,XGLO 300, ARMOR,MDPE
9PF5M008E-T301A	8	Outdoor,loose tube,gel,MMF,50/125,XGLO 300, ARMOR,MDPE
9PF5M096G-T301A	96	Outdoor,loose tube,gel,MMF,50/125,XGLO 300, ARMOR,MDPE
9PF6M012G-G101A	12	Outdoor,loose tube,gel,MMF,62.5,Lightsystem, ARMOR,MDPE
9PF6M144G-G101A	144	Outdoor,loose tube,gel,MMF,62.5,Lightsystem, ARMOR,MDPE
9PF6M016C-G101A	16	Outdoor,loose tube,gel,MMF,62.5,Lightsystem, ARMOR,MDPE
9PF6M024D-G101A	24	Outdoor,loose tube,gel,MMF,62.5,Lightsystem, ARMOR,MDPE
9PF6M002B-G101A	2	Outdoor,loose tube,gel,MMF,62.5,Lightsystem, ARMOR,MDPE
9PF6M036G-G101A	36	Outdoor,loose tube,gel,MMF,62.5,Lightsystem, ARMOR,MDPE
9PF6M048G-G101A	48	Outdoor,loose tube,gel,MMF,62.5,Lightsystem, ARMOR,MDPE
9PF6M004C-G101A	4	Outdoor,loose tube,gel,MMF,62.5,Lightsystem, ARMOR,MDPE
9PF6M006D-G101A	6	Outdoor,loose tube,gel,MMF,62.5,Lightsystem, ARMOR,MDPE
9PF6M072G-G101A	72	Outdoor,loose tube,gel,MMF,62.5,Lightsystem, ARMOR,MDPE
9PF6M008E-G101A	8	Outdoor,loose tube,gel,MMF,62.5,Lightsystem, ARMOR,MDPE
9PF6M096G-G101A	96	Outdoor,loose tube,gel,MMF,62.5,Lightsystem, ARMOR,MDPE
9PF8M012G-E201A	12	Outdoor,loose tube,gel,SMF,XGLO, ARMOR,MDPE
9PF8M144G-E201A	144	Outdoor,loose tube,gel,SMF,XGLO, ARMOR,MDPE
9PF8M016C-E201A	16	Outdoor,loose tube,gel,SMF,XGLO, ARMOR,MDPE
9PF8M024D-E201A	24	Outdoor,loose tube,gel,SMF,XGLO, ARMOR,MDPE
9PF8M002B-E201A	2	Outdoor,loose tube,gel,SMF,XGLO, ARMOR,MDPE
9PF8M036G-E201A	36	Outdoor,loose tube,gel,SMF,XGLO, ARMOR,MDPE
9PF8M048G-E201A	48	Outdoor,loose tube,gel,SMF,XGLO, ARMOR,MDPE
9PF8M004C-E201A	4	Outdoor,loose tube,gel,SMF,XGLO, ARMOR,MDPE
9PF8M006D-E201A	6	Outdoor,loose tube,gel,SMF,XGLO, ARMOR,MDPE
9PF8M072G-E201A	72	Outdoor,loose tube,gel,SMF,XGLO, ARMOR,MDPE
9PF8M008E-E201A	8	Outdoor,loose tube,gel,SMF,XGLO, ARMOR,MDPE
9PF8M096G-E201A	96	Outdoor,loose tube,gel,SMF,XGLO, ARMOR,MDPE

PART NUMBER AND DESCRIPTION XGLO 550

Unit of measure: FEET

Example: 9PF5M012G-T501A (XGLO 550- MMF 50/125, ARMORED)

OUTSIDE PLANT ARMOR BASE P/N (FEET)	Strand count	Description: Loose tube, gel filed, MDPE, armor jacket,black
9PE5M012G-T501A	12	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,NON ARMOR,MDPE
9PE5M144G-T501A	144	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,NON ARMOR,MDPE
9PE5M016C-T501A	16	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,NON ARMOR,MDPE
9PE5M024D-T501A	24	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,NON ARMOR,MDPE
9PE5M002B-T501A	2	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,NON ARMOR,MDPE
9PE5M036G-T501A	36	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,NON ARMOR,MDPE
9PE5M048G-T501A	48	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,NON ARMOR,MDPE
9PE5M004C-T501A	4	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,NON ARMOR,MDPE
9PE5M006D-T501A	6	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,NON ARMOR,MDPE
9PE5M072G-T501A	72	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,NON ARMOR,MDPE
9PE5M008E-T501A	8	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,NON ARMOR,MDPE
9PE5M096G-T501A	96	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,NON ARMOR,MDPE
9PF5M012G-T501A	12	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,, ARMOR,MDPE
9PF5M144G-T501A	144	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,, ARMOR,MDPE
9PF5M016C-T501A	16	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,, ARMOR,MDPE
9PF5M024D-T501A	24	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,, ARMOR,MDPE
9PF5M002B-T501A	2	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,, ARMOR,MDPE
9PF5M036G-T501A	36	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,, ARMOR,MDPE
9PF5M048G-T501A	48	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,, ARMOR,MDPE
9PF5M004C-T501A	4	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,, ARMOR,MDPE
9PF5M006D-T501A	6	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,, ARMOR,MDPE
9PF5M072G-T501A	72	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,, ARMOR,MDPE
9PF5M008E-T501A	8	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,, ARMOR,MDPE
9PF5M096G-T501A	96	Outdoor,loose tube,gel,MMF,50/125,XGLO 550,, ARMOR,MDPE