



Head Office / Ipjang Factory

443, Yeongok-gil, Ipjang-myeon, Seobuk-gu, Cheonan-si, Chungcheongnam-do, Korea
Tel. +82-41-589-6500 Fax. +82-41-589-6400

Bukmyeon Factory

5, Myungduk 1-gil, Buk-myeon, Dongnam-gu, Cheonan-si, Chungcheongnam-do, Korea
Tel. +82-41-554-0630 Fax. +82-41-553-7166

Sales Office

Songhyun Tower 136, Unjung-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea
Tel. +82-31-8038-9900 Fax. +82-31-8038-9905

Geoje Office

1F, Hyosung Bldg., 107-3 Yongso 1-gil Geoje-si, Gyeongsangnam-do, Korea
Tel. +82-55-688-5261 Fax. +82-55-688-5262

Texas Factory (USA)

1901 Hutton Ct Farmers Branch, TX 75234, USA
Tel. +1 214-813-0740

Dalian Office (China)

New World Minglong, Zhongshan District, Dalian, China
Tel. +86 186-4118-3797



FIBER OPTIC Cables

Cable for Indoor and Outdoor & Hybrid
& Marine Fiber Optic Cables

ENTERPRISE WITH DREAM, HOPE, AND FUTURE

TMC Co., Ltd has been pursuing innovation in technology and products for the specialty industrial cable market.

For 31 years TMC has had a single-minded focus on delivering superior customer services with marine and offshore plant cable solutions.

The operational excellence of TMC is underpinned by its products with the best quality and outstanding service to meet specific requirements that makes us the world's most experienced marine and offshore cable manufacturer.

Company History

- 1991 Establishment of Seojin Industry Co.,Ltd.
- 1998 ISO 9001 Certification by LRQA
- 2004 ISO 14001 Certification by LRQA
- 2005 Changed the name of company to TMC Co.,Ltd.
- 2006 Won the 30 million USD Export Tower Award granted by the Ministry of Knowledge Economy
- 2007 Achieved Korean world-class product award 2007
- 2008 Won the 100 million USD Export Tower Award granted by the Ministry of Knowledge Economy
- 2008 OHSAS 18001 Certification by LRQA
- 2010 Earned recognition by DSME as one of the excellent supplier
- 2011 KEPIC Certification by KEA (Manufacture of Class 1E cable)
- 2012 Won the 200 million USD Export Tower Award granted by the Ministry of Knowledge Economy
- 2013 Designated as 'Korean Hidden Champion' by Korea Eximbank
- 2014 Selected as a Good Supplier for KT
- 2015 Acquisition of Seepel
- 2016 Acquisition of Glow One (Formerly Posco LED)
- 2017 Awarded 'Certificate of Reliable marine equipment manufacturer&supplier' by KOSHIPA and KOMEA
- 2019 Selected as Best Quality Managed Supplier of Hyundai Heavy Industries
- 2019 Obtained ISO 45001
- 2020 Selected Best A/S Quality Managed Supplier of DSME
- 2020 Selected Best Supplier of Samsung Heavy Industries
- 2021 Selected as Regionally Leading Mid-sized Enterprises
- 2023 Established TMC Cable USA, LLC in Carrollton, TX, USA
- 2025 Established TMC Texas Inc. in TX, USA (Fiber Optic Cable Factory)

Certificates for Optical Fiber Cables

- (UL) and c(UL)
- CPR
- ABS, DNV, LR



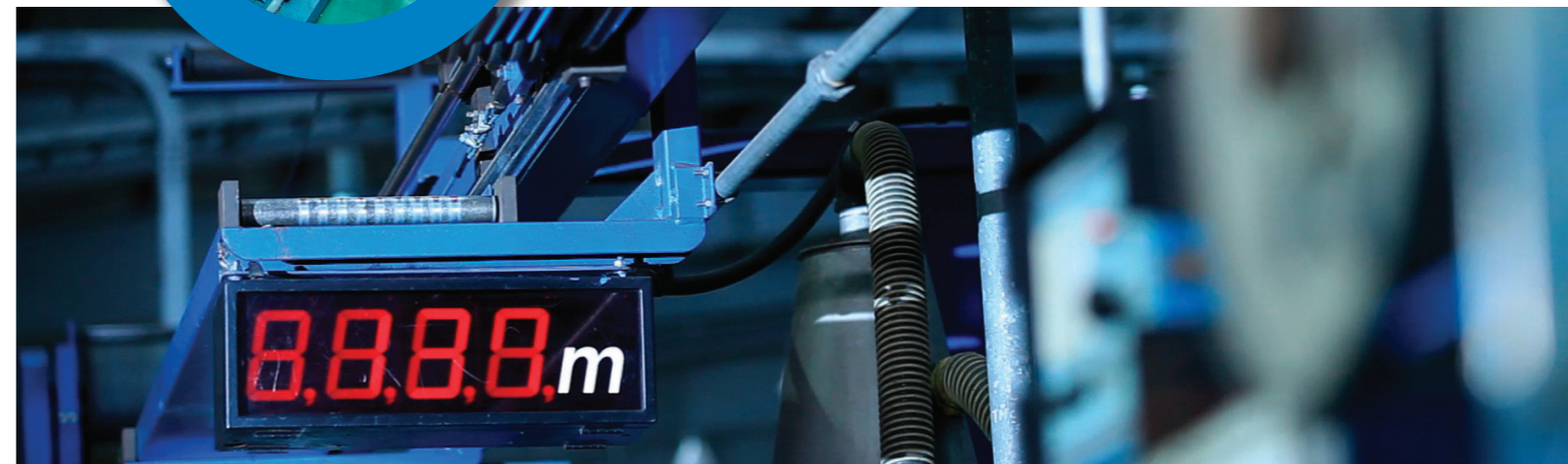
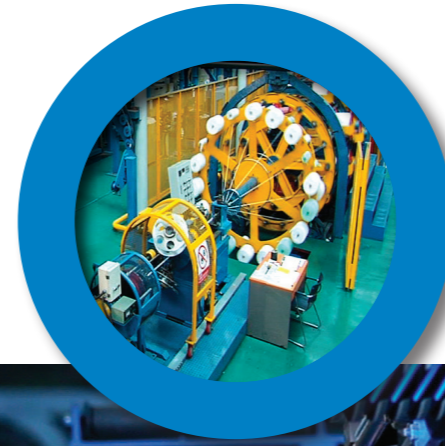
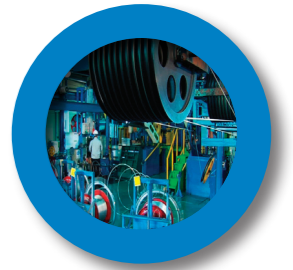
Optical Fibers

Single Mode Fiber

Attribute	Detail	Unit	Specification			
			SM G.652D	SM G.657A1	SM G.657 A2&B2	SM G.657B3
Attenuation Coefficient	at 1310nm	dB/km	≤ 0.40	≤ 0.40	≤ 0.40	≤ 0.40
	at 1550nm		≤ 0.30	≤ 0.30	≤ 0.30	≤ 0.30
Chromatic Dispersion	at 1290nm ~ 1330nm	ps/nm.km	≤ 2.8	≤ 2.8	≤ 2.8	≤ 2.8
	at 1550 nm		≤ 18	≤ 18	≤ 18	≤ 18
Zero Dispersion Wavelength		nm	1300 ~ 1324	1300 ~ 1324	1300 ~ 1324	1300 ~ 1324
Zero Dispersion Slope		ps/nm².km	≤ 0.095	≤ 0.095	≤ 0.095	≤ 0.095
PMD Coefficient		ps/√ km	≤ 0.4	≤ 0.4	≤ 0.4	≤ 0.4
Cut-off Wavelength		nm	≤ 1260	≤ 1260	≤ 1260	≤ 1260
Mode Field Diameter	at 1310nm	μm	9.2 ± 0.5	8.6 ± 0.5	8.6 ± 0.5	8.6 ± 0.5
Cladding Diameter		μm	125 ± 1	125 ± 1	125 ± 1	125 ± 1
Core/Clad concentricity error		μm	≤ 0.8	≤ 0.8	≤ 0.8	≤ 0.8
Cladding Non-circularity		%	≤ 1	≤ 1	≤ 1	≤ 1
Coating Diameter		μm	245 ± 15	245 ± 15	245 ± 15	245 ± 15

Multi-Mode Fiber

Attribute	Detail	Unit	Specification				
			MM62.5 (OM1)	MM50 (OM2)	MM50 (OM3)	MM50 (OM4)	MM50 (OM5)
Attenuation Coefficient	at 850nm	dB/km	≤ 3.5	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0
	at 1300nm		≤ 1.5	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Bandwidth	at 850nm	MHz.km	≥ 200	≥ 500	≥ 1500	≥ 3500	≥ 3500
	at 953nm		-	-	-	-	≥ 1850
	at 1300 nm		≥ 500	≥ 500	≥ 500	≥ 500	≥ 500
Numerical Aperture		-	0.275 ± 0.015	0.20 ± 0.015	0.20 ± 0.015	0.20 ± 0.015	0.20 ± 0.015
Core Diameter		μm	62.5 ± 3.0	50 ± 3.0	50 ± 3.0	50 ± 3.0	50 ± 3.0
Cladding Diameter		μm	125 ± 2.0	125 ± 2.0	125 ± 2.0	125 ± 2.0	125 ± 2.0
Cladding Non-circularity		%	≤ 2.0	≤ 2.0	≤ 2.0	≤ 1.0	≤ 1.0
Core/Cladding Concentricity Error		μm	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0
Coating Diameter		μm	245 ± 15	245 ± 15	245 ± 15	245 ± 15	245 ± 15

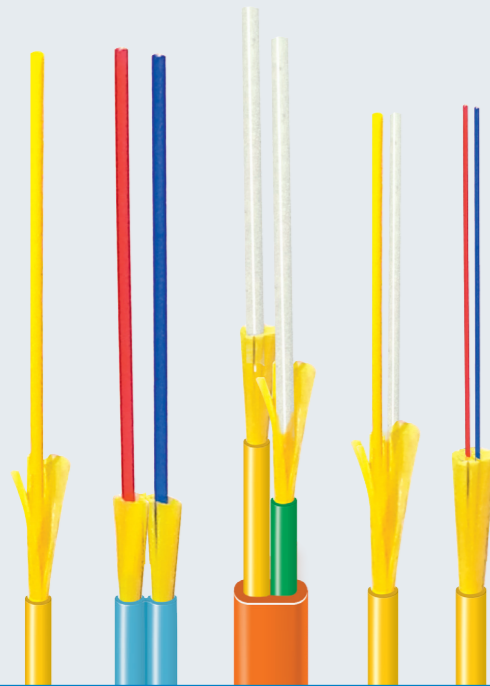


OPTICAL Cable

Patch cord Cables	06
Multi fiber Cables	07
Distribution Cables	08
Breakout Cables	09
Hardened Connector Cables	10
MDU Drop Cables	11
SS-Flat Drop Cables (TB type)	12
SS-Mini Flat Drop Cables (TB type)	13
SS-Flat Drop Cables (LT type)	14
Composition Cables	15
Hybrid Fanout Cables (Optic & Copper)	16
AICI (B-type) for Marine Fiber Optic Cable	18
AICI (D-type) for Marine Fiber Optic Cable	20
QFCI for Marine Fiber Optic Cable	21
QFCU for Marine Fiber Optic Cable	22
Certifications	23



Patch cord Cables



Description

- Available Single-mode and Multi-mode fibers
- Flame retardant and Tight buffered cable
- 1.6mm to 3.0mm diameter
- Alternative outer jacket material and colors available

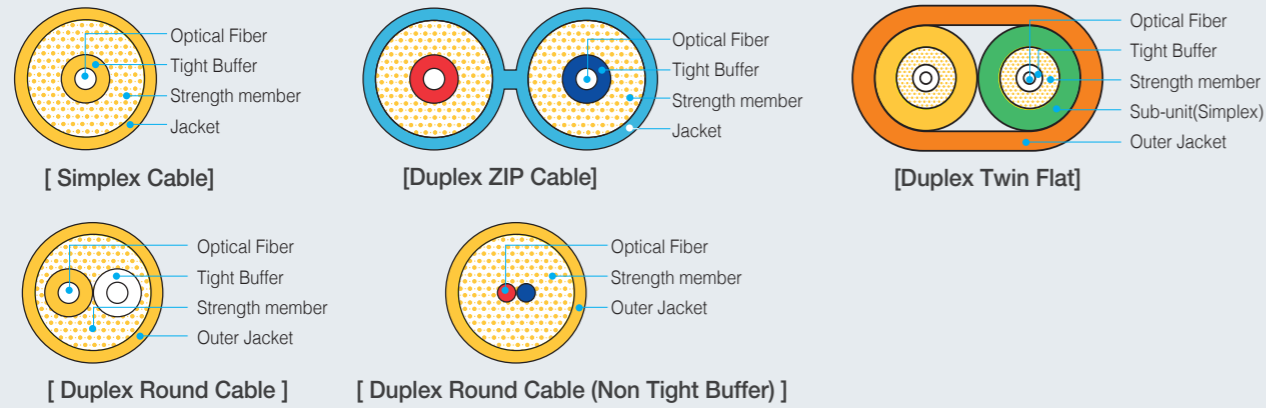
Application

- Indoor communication system
- Jumpers, Pigtails, Patch cords
- All dielectric application

Features

- Highly flexible and light weight for easy handling
- RoHS compliance
- UL listed OFNR, OFNP

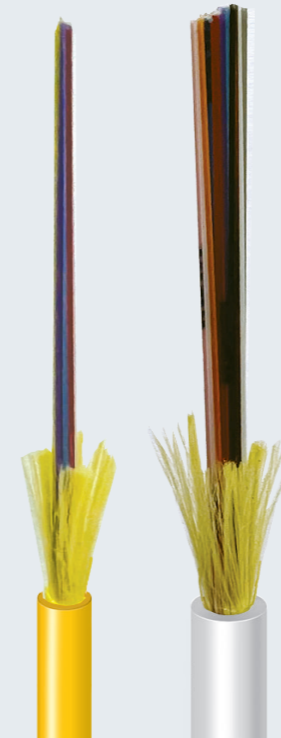
Cable Cross Section



Standard Cable Information

Type	Number of Fiber	Buffer Diameter (μm)	Cable Diameter (mm)	Cable Weight (kg/km)	Min. Bending Radius (mm)	Tensile Load	
						Installation (N)	Operation (N)
Simplex	1	600 ± 50	1.6	3.0	24	90	50
			1.8	3.5	27	100	60
			2.0	4.0	30	150	70
		900 ± 50	2.4	6.5	36	190	90
			3.0	9.0	45	200	100
Duplex ZIP	2	600 ± 50	1.6*3.2	6.5	24	180	80
			1.8*3.6	7.5	27	200	100
			2.0*4.0	8.0	30	300	140
		900 ± 50	2.4*4.8	12.5	36	380	180
			3.0*6.0	18.5	45	400	200
Duplex Twin Flat	2	900 ± 50	(2.0 SP) 2.0*5.0	17	30	300	140
			(2.8 SP) 3.8*6.6	25	38	400	200
Duplex Round	2	600 ± 50	2.0	4.5	30	100	30
Duplex Round (Non Tight Buffer)	2	N/A	2.0	4.0	30	100	30

Multi fiber Cables



Description

- Available Single-mode or Multi-mode colored fibers
- 2C to 24C Single-unit,
- Range of diameter 1.8mm to 3.0mm

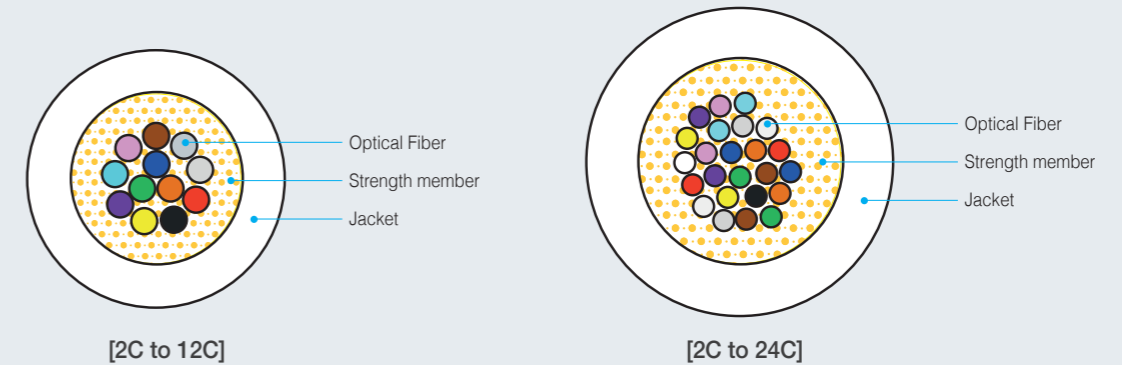
Application

- For Indoor communication system
- Ideal for use in trunk, data center cables
- Small and highly concentrated number of optical fibers
- Suitable for MPO/MTP assembly

Features

- Compact and light weight, Very flexible
- Flame retardant cable
- RoHS compliance
- UL listed OFNR, OFNP

Cable Cross Section



Standard Cable Information

Number of Fiber	Cable Diameter (mm)	Approx. Cable Weight (kg/km)	Min. Bending Radius		Tensile Load	
			Installation (mm)	Static (mm)	Installation (N)	Operation (N)
2C to 12C	1.8 or 2.0	3.5	30	15	100	60
2C to 24C	3.0	8.5	45	23	120	70

Note 1. Cable construction and performance available on customer request.

Distribution Cables



Description

- Available Single-mode and Multi-mode fibers
- Flame retardant and Tight buffered cable
- 2C to 48C single or multi units
- Alternative outer jacket material and colors available

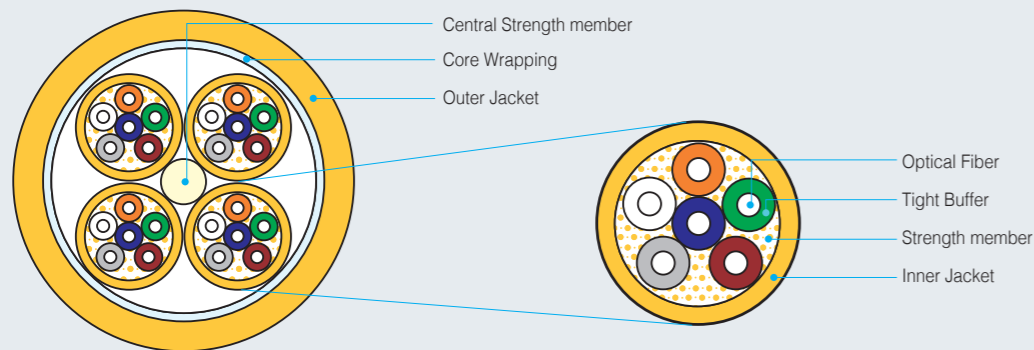
Application

- Inner building Backbone application
- All dielectric application

Features

- Compact design to save duct or conduit space
- RoHS compliance
- UL listed OFNR, OFNP

Cable Cross Section

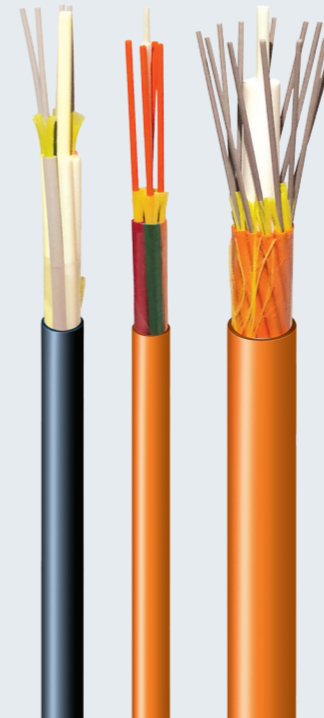


Standard Cable Information

Number of Fiber	Units	Tight Buffer Diameter (μm)	Cable Diameter (mm)	Approx. Cable Weight (kg/km)	Min. Bending Radius (mm)	Tensile Load	
						Installation (N)	Operation (N)
2	2F x 1U	600 ± 50 or 900 ± 50	4.3	18	450	450	250
4	4F x 1U		4.7	22	450	450	250
6	6F x 1U		5.5	28	450	450	250
8	8F x 1U		6.1	34	600	600	300
12	12F x 1U		6.5	41	65	600	300
24	24F x 1U		9.0	72	90	1000	500
24	6F x 4U		12.8	146	192	1400	800
36	6F x 6U		15.5	220	230	1600	900
48	8F x 6U		17.0	280	250	1800	1000

Note 1. F: fibers, U: units Note 2. This table is calculated with 900μm tight buffer.

Breakout Cables



Description

- Available Single-mode and Multi-mode fibers
- Flame retardant and Tight buffered cable
- 2C to 24C
- Alternative outer jacket material and colors available

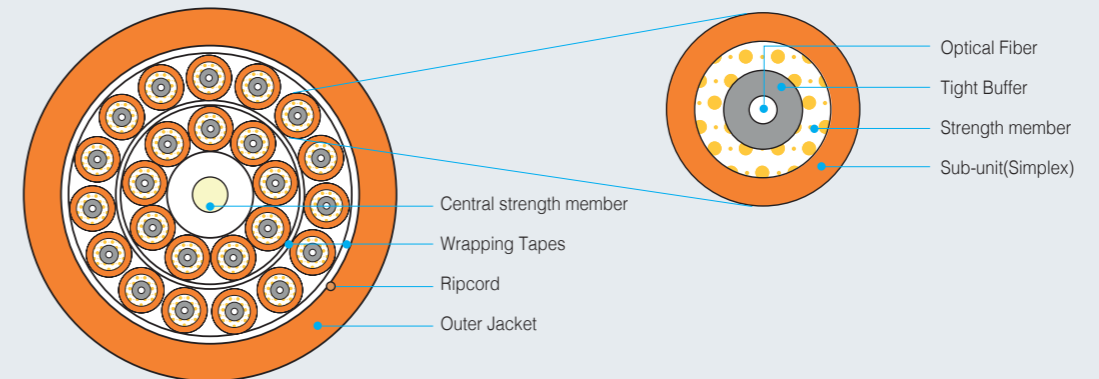
Application

- Inner building Backbone application
- All dielectric application

Features

- Excellent mechanical and environmental characteristics
- Compact design to save duct or conduit space
- Easy stripping for quick splicing
- RoHS compliance
- UL listed OFNR

Cable Cross Section

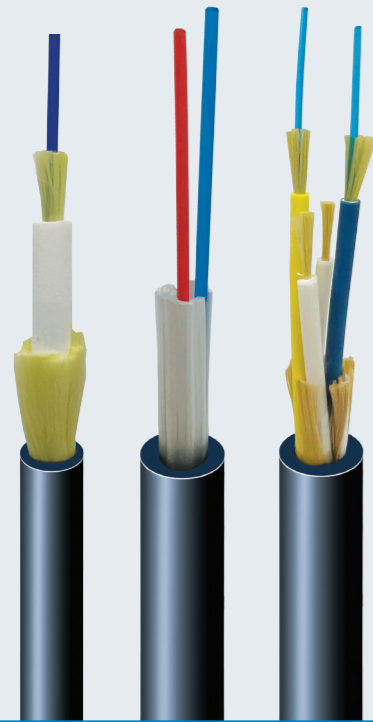


Standard Cable Information

Number of Fiber	Tight Buffer Diameter (μm)	Sub-unit Diameter (mm)	Cable Diameter (mm)	Approx. Cable Weight (kg/km)	Min. Bending Radius (mm)	Tensile Load	
						Installation (N)	Operation (N)
2	600 ± 50 or 900 ± 50	1.6, 2.0, 2.4, 3.0	6.5	43	90	400	200
4			7.2	50	100	700	400
6			8.2	72	120	900	600
8			10.0	95	150	1500	700
12			12.0	150	170	1500	900
16			13.0	170	200	1400	800
24			16.0	190	240	1500	1000

Note 1. This table is calculated with 2.0mm sub-unit.

Hardened Connector Cables



Description

- Hardened connector assembly cables
- Available all customized design.
- Preferable and easy compatible Tight buffered type applied
- Designed for cable focusing on severe environmental condition well resist weather to cold and heat

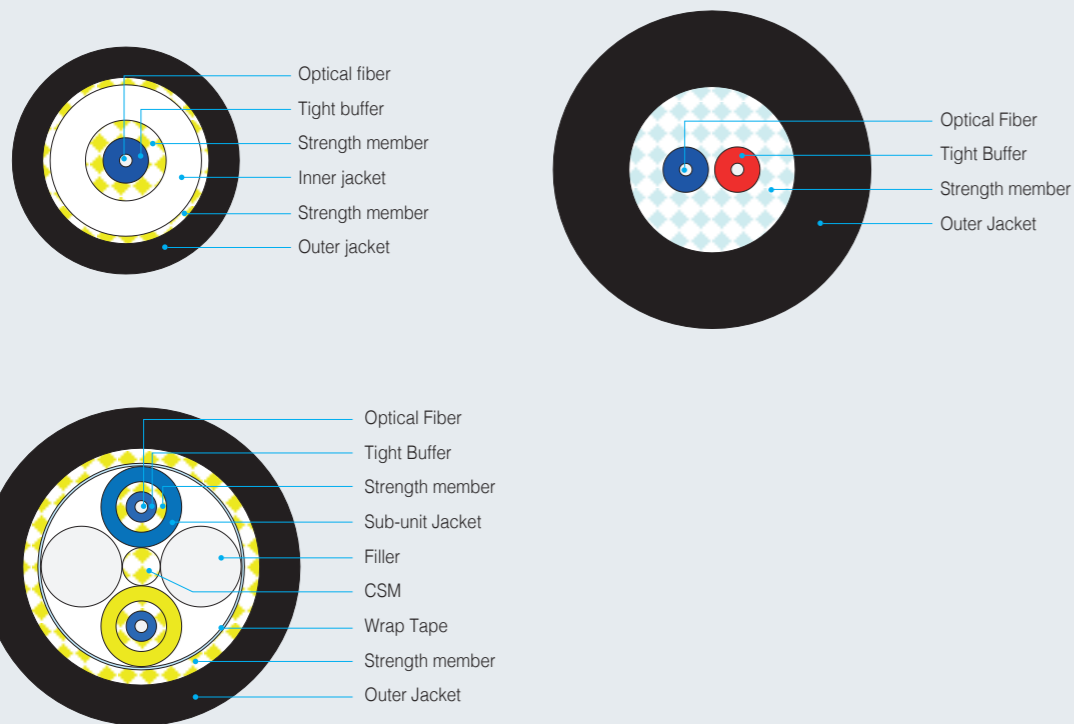
Application

- Indoor/Outdoor drop
- FTTH or FTTx Networks

Features

- Excellent bend performance
- Non-Flammable and LSHF
- Appropriate CPR
- UL listed OFNR

Cable Cross Section



MDU Drop Cables



Description

- Bend insensitive single-mode fiber with Tight buffered cable
- Selection design for Compact or Rugged type
- Easy compatible usual fiber optic connector

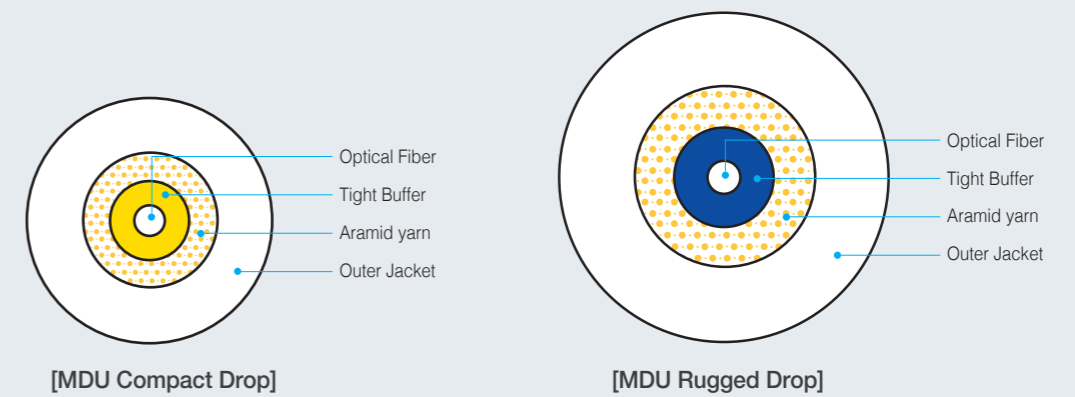
Application

- Drop cable for use indoor or indoor/outdoor
- For universal Drop or Patch cord
- Applicable FTTH or MDU(multi-dwelling unit)

Features

- Excellent bending characteristic
- Flame retardant
- RoHS compliance
- UL Listed OFNR and OFNP

Cable Cross Section



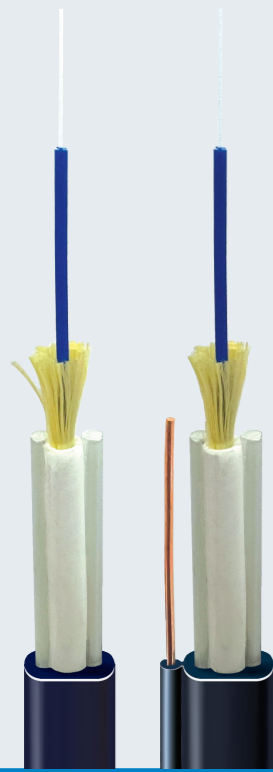
Standard Cable Information

Type	Number of Fiber	Tight buffer (μm)	Cable Diameter (mm)	Tensile Load		Min. Bending Radius	
				Installation (N)	Operating (N)	Unloaded (mm)	Loaded (mm)
Compact Drop	1C	900±50	2.9	220	66	29	58
Rugged Drop	1C	900±50	4.8	440	132	48	96

Note. Cable construction and performance available on customer request.

SS-Flat Drop Cables (TB type)

SS-Mini Flat Drop Cables (TB type)



Description

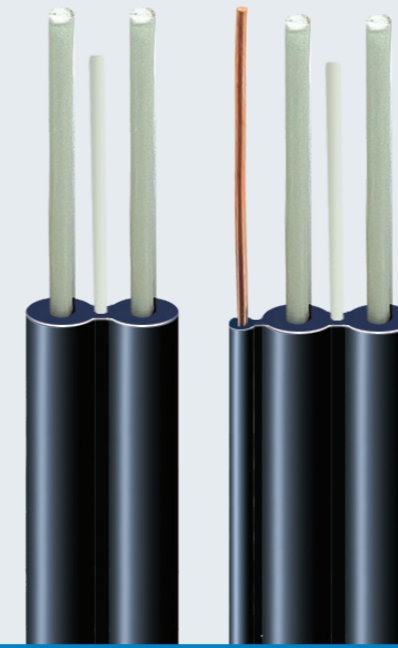
- Bend insensitive Single-mode fibers with Tight buffered cable
- Selection design for Dielectric or Toning cable
- Compact drop cable construction
- Suitable indoor for 2.9mm inside riser cable
- Good weather resistance outside cable
- Compatible with usual splitter for sheath removal

Application

- Universal drop cable indoor or outdoor use
- Aerial mid-span access, Duct, Direct buried

Features

- Excellent mechanical and environmental characteristics
- RoHS compliance



Description

- Bend insensitive Single-mode fibers with Tight buffered cable
- Selection design for Dielectric or Toneable cable
- Easy sheath removal for quick and convenient installation
- Compact and lightweight drop cable construction
- Good weather resistance outside cable

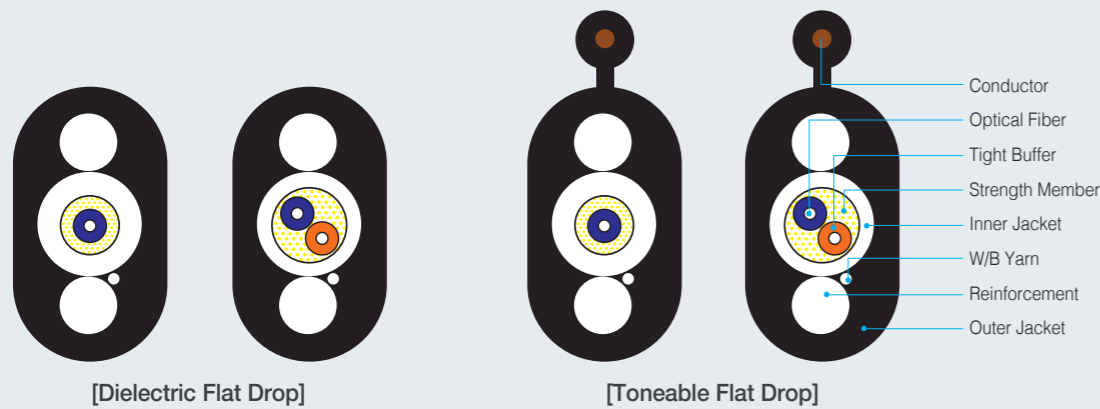
Application

- Universal drop cable indoor or outdoor use
- Aerial, Duct, Direct buried

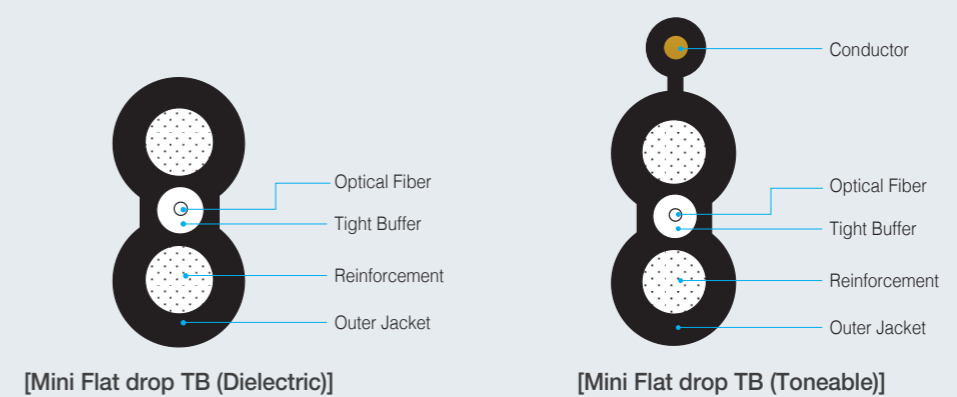
Features

- Excellent mechanical and environmental characteristics
- RoHS compliance
- Designed for easy access to fibers, improving field termination efficiency

Cable Cross Section



Cable Cross Section



Standard Cable Information

Type	Number of Fiber	Cable Diameter (mm)	Tensile Load		Crush resistance (N/100mm)	Min. Bending Radius	
			Installation (N)	Operating (N)		Unloaded (mm)	Loaded (mm)
Flat Drop (Dielectric)	1C	4.5*8.0	1350	405	1000N	80	160
	2C	4.5*8.0	1350	405	1000N	80	160
Flat Drop (Toneable)	1C	4.5*10.0	1350	405	1000N	100	200
	2C	4.5*10.0	1350	405	1000N	100	200

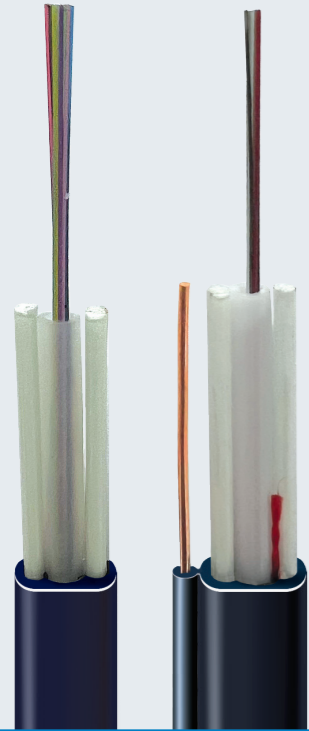
Note. Cable construction and performance available on customer request.

Standard Cable Information

Type	Number of Fiber	Cable Diameter (mm)	Tensile Load		Crush resistance (N/100mm)	Min. Bending Radius	
			Installation (N)	Operating (N)		Unloaded (mm)	Loaded (mm)
Flat Drop (Dielectric)	1C	2.7*5.1	1350	405	1000N	39	78
Flat Drop (Toneable)	1C	2.7*6.7	1350	405	1000N	47	94

Note. Cable construction and performance available on customer request.

SS-Flat Drop Cables (LT type)



Description

- Single-mode fibers with Gel-filled Loose tube cable
- Selection design for Dielectric or Toning cable
- Compact and durable uni-tube cable construction
- Good weather resistance and Suitable outdoor cable
- Compatible with usual slitter for sheath removal

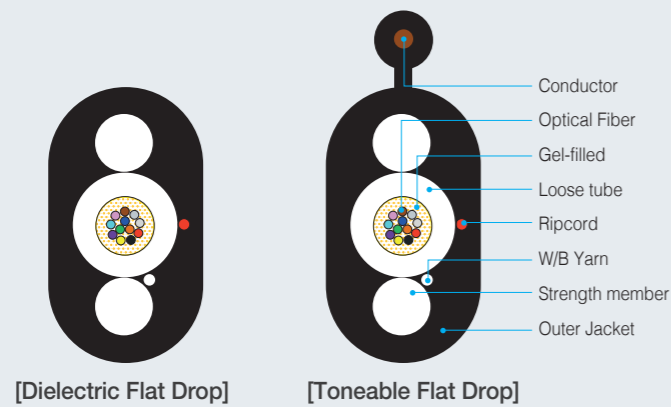
Application

- Universal drop cable indoor or outdoor use
- Aerial mid-span access, Duct, Direct buried

Features

- Excellent mechanical and environmental characteristics
- RoHS compliance

Cable Cross Section

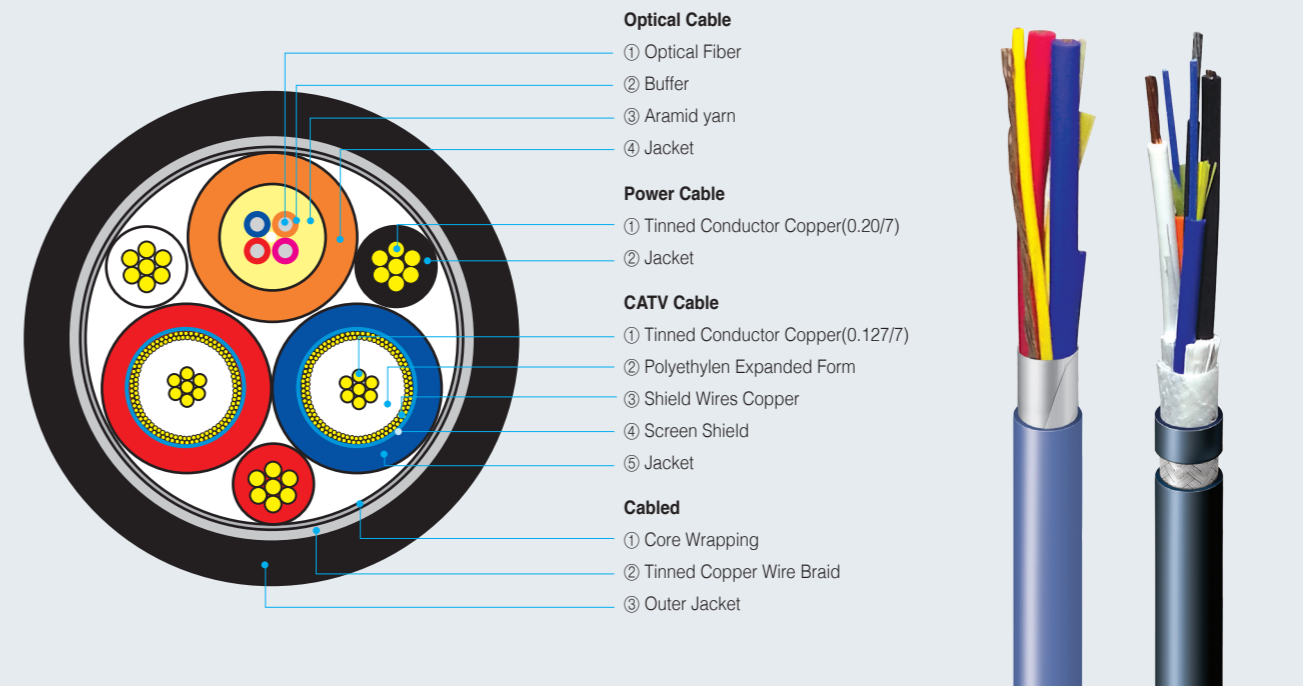
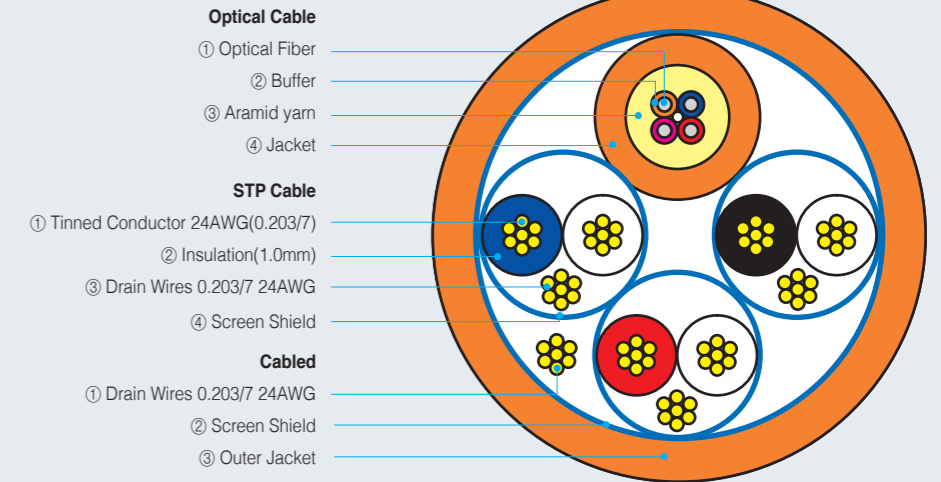


Standard Cable Information

Type	Number of Fiber	Cable Diameter (mm)	Tensile Load		Crush resistance (N/100mm)	Min. Bending Radius	
			Installation (N)	Operating (N)		Unloaded (mm)	Loaded (mm)
Flat Drop (Dielectric)	2C to 12C	4.5*8.0	1350	405	1000N	80	160
Flat Drop (Toneable)	2C to 12C	4.5*10.0	1350	405	1000N	100	200

Note. Cable construction and performance available on customer request.

Composition Cables



Hybrid Fanout Cables (Optic & Copper)



Description

- Available all customized design
- Basic composition of Loose tube cable up to 72 Fiber core, Single-mode and Multimode
- And up to 8Core of insulated conductor, Type THHN/THWN-2 or THHW, XHHW
- Suitable Cable Type TC-OF or Type RHC in accordance with UL 1277 or UL 2882
- Flame retardant, UV resistance

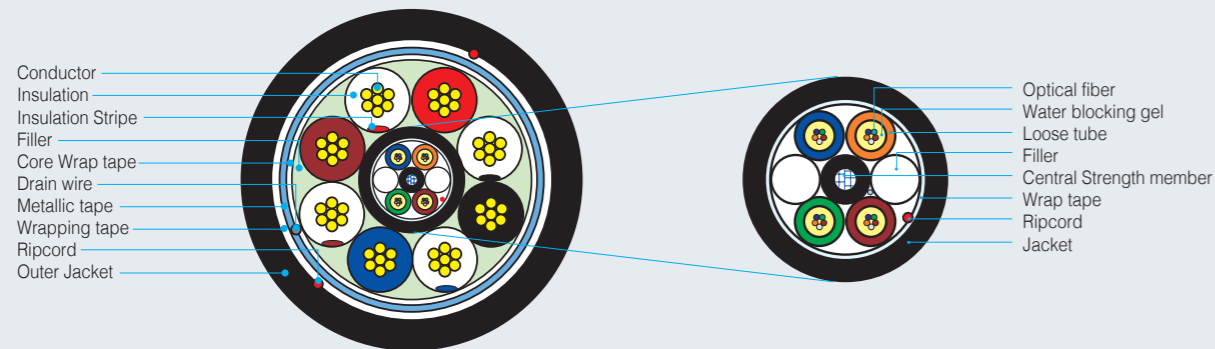
Application

- Indoor/Outdoor application, Flame retardant
- Feeder for electric power and Optical signal in one cable
- Use of Wireless infrastructure or Remote Radio Head cable
- Antenna system (FTTA, PTTA, HTTA etc.,)

Features

- Excellent mechanical and environmental characteristics
- RoHS compliance
- UL listed

Cable Cross Section



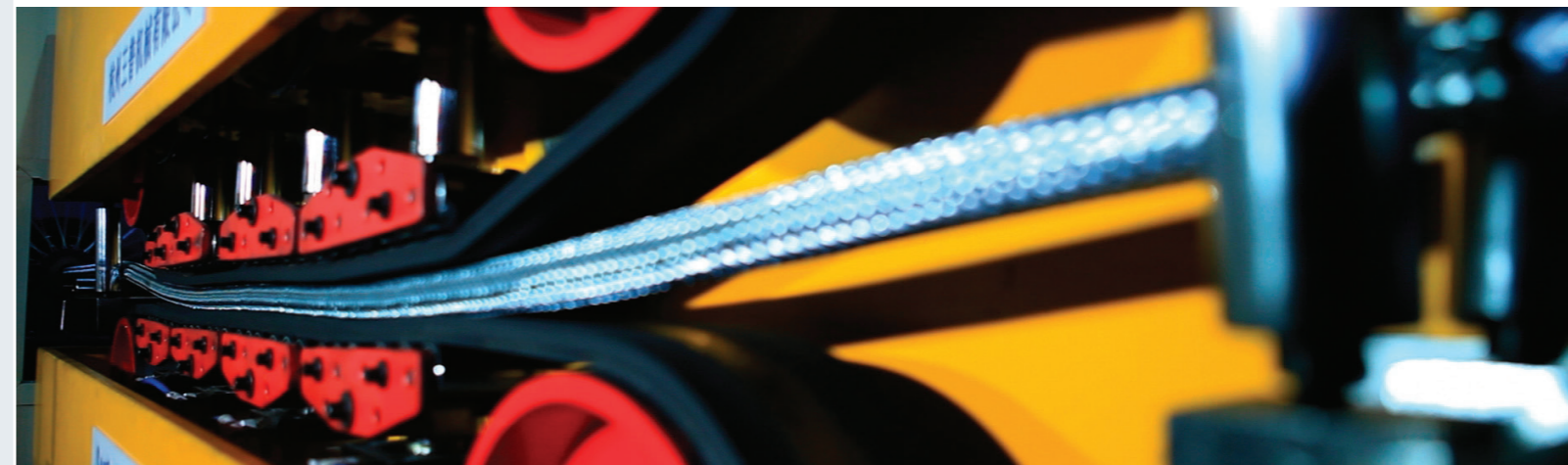
Standard Cable Information

No.	Cable Type	Cable Diameter (mm)	Approx. Cable Weight (kg/km)	Conductor Resistance (Ω/km)
1	10AWGx2C + 12AWGx6C + Optical fiber x 20F	25	786	12AWG : 5.35
2	8AWGx2C + 10AWGx6C + Optical Fiber x 20F	27	1,010	10AWG : 3.36
3	6AWGx2C + 8AWGx2C+10AWGx4C + Optical Fiber x 20F	30	1,230	8AWG : 2.12
4	6AWGx2C + 8AWGx6C + Optical Fiber x 20F	30	1,400	6AWG : 1.33
5	4AWGx2C + 6AWGx2C+8AWGx4C + Optical Fiber x 20F	32	1,720	4AWG : 0.84

Note. Cable construction and performance available on customer request



Armored Fiber optic Cable & Fiber optic Cable for Marine and Ship



AICI (B-type) for Marine Fiber Optic Cable	19
AICI (D-type) for Marine Fiber Optic Cable	21
QFCI for Marine Fiber Optic Cable	22
QFCU for Marine Fiber Optic Cable	23
Certifications	24

Flame retardant

AICI (B-type) for Marine Fiber Optic Cable



Description

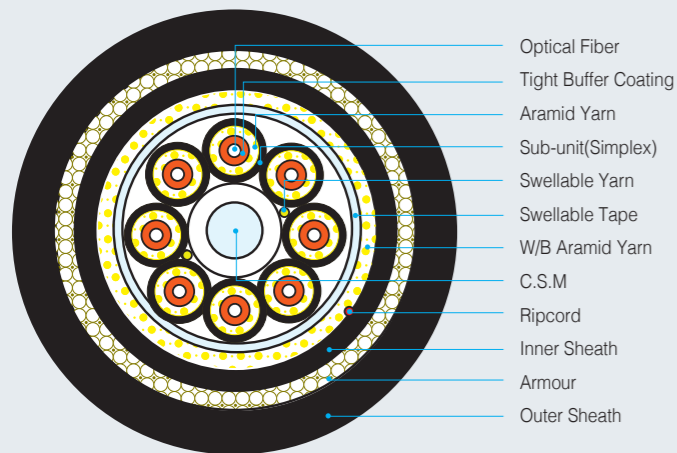
- Cable Designation in accordance with NEK TS 606
 - : AICI (GSWB, Galvanized steel wire Braid)
 - : AIBI (BWB, Bronze wire Braid)
 - : AIOI (TCWB, Tinned copper braid)
- Basis of cable construction
 - : Breakout(B-type) cable
 - : Tight buffered, Low-smoke Halogen free
 - : 2 to 24 fiber cores of Single-mode or Multimode optical fiber

Application

- Marine vessels, offshore platforms, oil platform, oil rigs, FPSOs, drill ship and others

Features

- Type Approval Certification for ship : ABS, DNV
- Flame retardant : IEC 60332-1-2 & IEC 60332-3-22 (CAT.A)
- Sheath material : IEC 60092-360 (SHF1, Thermoplastic)
- Operating Temperature : -40 to +70°C



- Optical Fiber
- Tight Buffer Coating
- Aramid Yarn
- Sub-unit(Simplex)
- Swellable Yarn
- Swellable Tape
- W/B Aramid Yarn
- C.S.M
- Ripcord
- Inner Sheath
- Armour
- Outer Sheath

Cable properties	
Tensile strength (IEC 60794-1-21-E1)	
Installation	1000 N
operation	500 N
Crush (IEC 60794-1-21-E3)	1000N/5min.
Impact (IEC 60794-1-21-E4)	20 J
Torsion (IEC 60794-1-21-E7)	±180°, 1m, 20cycle
Cable bend (IEC 60794-1-2-E11)	x10D
Cold bend (CSA 22.2 No.2556)	-40°C
Temperature	
installation	-10°C ~ +60°C
operation	-40°C ~ +70°C
Flame characteristic	
IEC 60332-1-2 & 60332-3-22	Flame retardant
Smoke density	
IEC 61034-2	≥ 60%
Halogen contents	
IEC 60754-1	≤ 0.5%

Flame retardant

Fire resistance

AICI(B-type) for Marine Fiber Optic Cable



Description

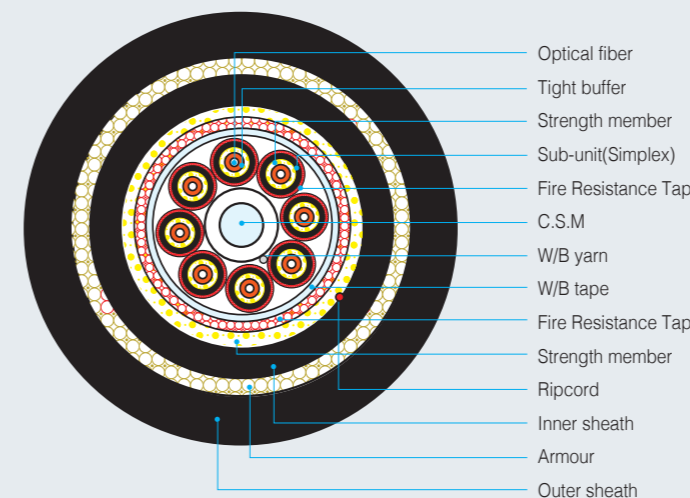
- Cable Designation in accordance with NEK TS 606
 - : AICI (GSWB, Galvanized steel wire Braid)
 - : AIBI (BWB, Bronze wire Braid)
 - : AIOI (TCWB, Tinned copper braid)
- Basis of cable construction
 - : Breakout(B-type) cable
 - : Tight buffered, Low-smoke Halogen free, Fire resistance
 - : 2 to 24 fiber cores of Single-mode or Multimode optical fiber

Application

- Armored Indoor/Outdoor and Fire resistance
- Marine vessels, Onshore/offshore platforms, Oil platform, FPSO, Rigs

Features

- Flame retardant : IEC 60332-1-2 & IEC 60332-3-22 (CAT.A)
- Fire resistance : IEC 60331-25
- Sheath material : IEC 60092-360 (SHF1, Thermoplastic)
- Operating Temperature : -40 to +70°C



- Optical fiber
- Tight buffer
- Strength member
- Sub-unit(Simplex)
- Fire Resistance Tape
- C.S.M
- W/B yarn
- W/B tape
- Fire Resistance Tape
- Strength member
- Ripcord
- Inner sheath
- Armour
- Outer sheath

Cable properties	
Tensile strength (IEC 60794-1-21-E1)	
installation	1000 N
operation	500 N
Crush (IEC 60794-1-21-E3)	1000N/5min.
Impact (IEC 60794-1-21-E4)	20 J
Torsion (IEC 60794-1-21-E7)	±180°, 1m, 20cycle
Cable bend (IEC 60794-1-2-E11)	x10D
Cold bend (CSA 22.2 No.2556)	-40°C
Temperature	
installation	-10°C ~ +60°C
operation	-40°C ~ +70°C
Flame Characteristics	
IEC 60332-1-2 & 60332-3-22	Flame retardant
IEC 60331-25	Fire resistance
Smoke density	
IEC 61034-2	≥ 60%
Halogen contents	
IEC 60754-1	≤ 0.5%

Flame retardant

AICI (D-type) for Marine Fiber Optic Cable



Description

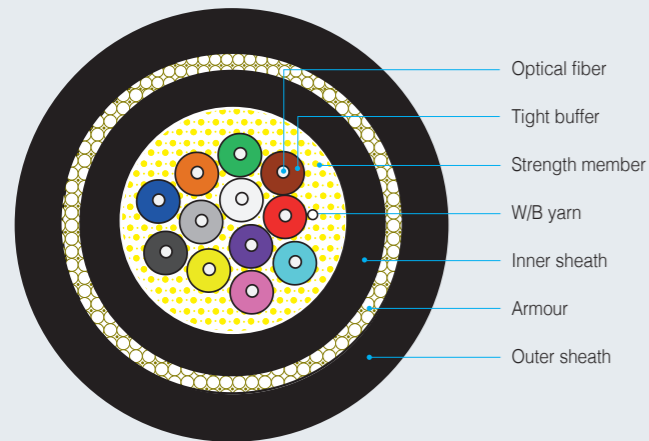
- Cable Designation in accordance with NEK TS 606
 - : AICI (GSWB, Galvanized steel wire Braid)
 - : AIBI (BWB, Bronze wire Braid)
 - : AIOI (TCWB, Tinned copper braid)
- Basis of cable construction
 - : Distribution(D-type) single-unit cable
 - : Tight buffered, Low-smoke Halogen free
 - : 2 to 24 fiber cores of Single-mode or Multimode optical fiber

Application

- Armored Indoor/Outdoor Distribution Cable for use general purpose
- Light duty than B-type
- Marine vessels, Onshore/offshore platforms, Oil platforms, FPSO, Rigs.

Features

- Flame retardant : IEC 60332-1-2 & IEC 60332-3-22 (CAT.A)
- Sheath material : IEC 60092-360 (SHF1, Thermoplastic)
- Operating Temperature : -40 to +70°C

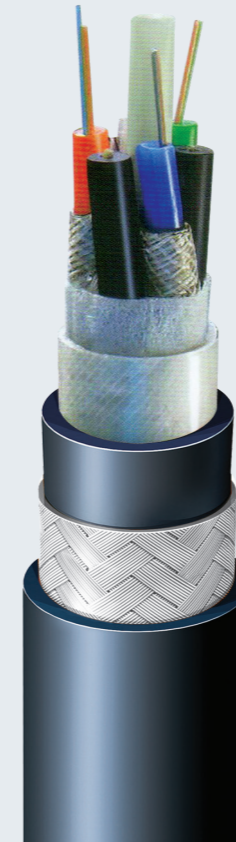


Cable properties	
Tensile strength (IEC 60794-1-21-E1)	
Installation	1000 N
operation	500 N
Crush (IEC 60794-1-21-E3)	1000N/5min.
Impact (IEC 60794-1-21-E4)	20 J
Torsion (IEC 60794-1-21-E7)	±180°, 1m, 20cycle
Cable bend (IEC 60794-1-2-E11)	x10D
Cold bend (CSA 22.2 No.2556)	-40°C
Temperature	
installation	-10°C ~ +60°C
operation	-40°C ~ +70°C
Flame characteristic	
IEC 60332-1-2 & 60332-3-22	Flame retardant
Smoke density	
IEC 61034-2	≥ 60%
Halogen contents	
IEC 60754-1	≤ 0.5%

Flame retardant

Fire resistance

QFCI for Marine Fiber Optic Cable



Description

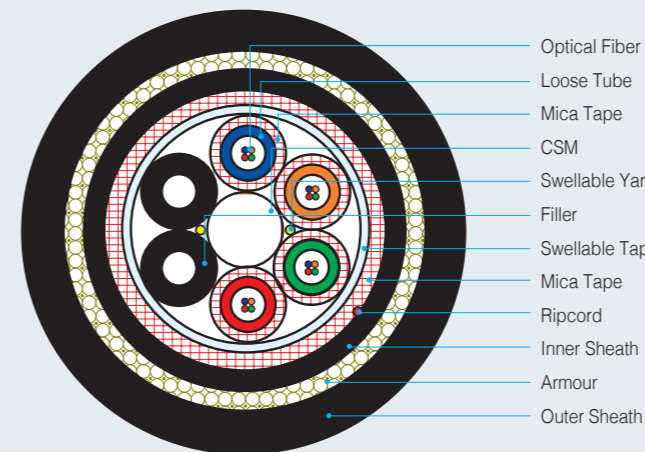
- Cable Designation in accordance with NEK TS 606
 - : QFCI (GSWB, Galvanized steel wire Braid)
 - : QFBI (BWB, Bronze wire Braid)
 - : QFOI (TCWB, Tinned copper braid)
- Basis of cable construction
 - : S/Z stranded Loose tube Fiber optic cable
 - : Low-smoke Halogen free, Fire resistance
 - : 2 to 72 fiber cores of Single-mode or Multimode optical fiber

Application

- Marine vessels, offshore platforms, oil platform, oil rigs, FPSOs, drill ship and others

Features

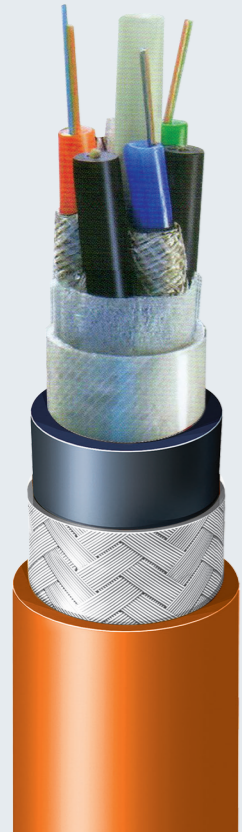
- Type Approval Certification for ship : ABS, DNV, LR
- Flame retardant : IEC 60332-1-2 & IEC 60332-3-22 (CAT.A)
- Fire resistance : IEC 60331-25 & BS EN 50200 Annex E
- Sheath material : IEC 60092-360 (SHF1, Thermoplastic)
- Operating Temperature : -40 to +70°C



Cable properties	
Tensile strength (IEC 60794-1-2 E1)	
installation	1500 N
operation	500 N
Crush (IEC 60794-1-2 E3)	3000 N/10cm
Impact (IEC 60794-1-2 E4)	30 J
Torsion (IEC 60794-1-2 E7)	±1turn/1m
Cable bend (IEC 60794-1-2 E11)	x10D
Cold bend	-40°C
Temperature	
installation	-10°C ~ +60°C
operation	-40°C ~ +70°C
Flame and fire characteristics	
IEC 60331-25 1000°C 180min.	≤ 1.5dB
IEC 60332-1&3	Flame retardant
Smoke density	
IEC 61034	≥ 60%
Halogen contents	
IEC 60754-1&2	≤ 0.5%

Flame retardant Fire resistance Mud resistance

QFCU for Marine Fiber Optic Cable



Description

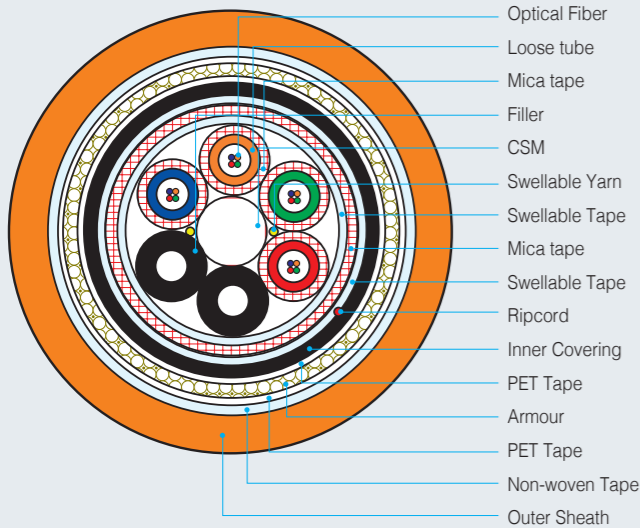
- Cable Designation in accordance with NEK TS 606
 - : QFCU (GSWB, Galvanized steel wire Braid)
 - : QFBU (BWB, Bronze wire Braid)
 - : QFOU (TCWB, Tinned copper braid)
- Basis of cable construction
 - : S/Z stranded Loose tube Fiber optic cable
 - : Low-smoke Halogen free, Fire resistance+Mud resistance
 - : 2 to 72 fiber cores of Single-mode or Multimode optical fiber

Application

- Marine vessels, offshore platforms, oil platform, oil rigs, FPSOs, drill ship and others

Features

- Type Approval Certification for ship : ABS, DNV
- Flame retardant : IEC 60332-1-2 & IEC 60332-3-22 (CAT.A)
- Fire resistance : IEC 60331-25 & BS EN 50200 Annex E
- Oil and Mud resistance : NEK TS 606 (CAT.b, c, d)
- Sheath material : IEC 60092-360 (SHF2, Thermoset)
- Operating Temperature : -40 to +70°C



Cable properties	
Tensile strength (IEC 60794-1-2 E1)	
installation	1500 N
operation	500 N
Crush (IEC 60794-1-2 E3)	3000 N/10cm
Impact (IEC 60794-1-2 E4)	30 J
Torsion (IEC 60794-1-2 E7)	±1turn/1m
Cable bend (IEC 60794-1-2 E11)	x10D
Cold bend	-40°C
Temperature	
installation	-10°C ~ +60°C
operation	-40°C ~ +70°C
Mud resistance	
Diesel IRM 903	100°C 7days
Calsium Bromide Brine	70°C 56days
Carbo Sea	70°C 56days
Flame and fire characteristics	
IEC 60331-25 1000°C 180min.	≤ 1.5dB
IEC 60332-1&3	Flame retardant
Smoke density	
IEC 61034	≥ 60%
Halogen contents	
IEC 60754-1&2	≤ 0.5%

Certifications



Cert. of ISO 9001



Cert. of ISO 14001



Cert. of ISO 45001

Class Type Approval



DNV



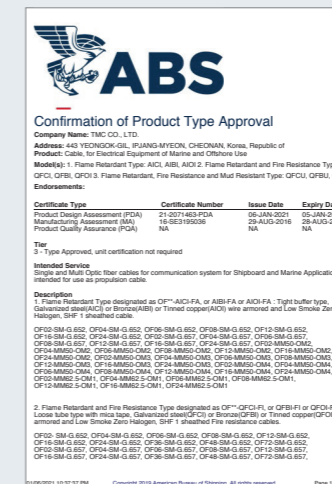
DNV



DNV



UL & cUL



ABS



LR