

IENTIERPRISE WITTH IDREAM, HOPE, AND FUTTURE

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

Certificates for Optical Fiber Cables

• (UL) and c(UL)

• CPR

• ABS, DNV, LR





Optical Fibers

Single Mode Fiber

				Speci	fication	
Attribute	Detail	Unit	SM G.652D	SM G.657A1	SM G.657 A2&B2	SM G.657B3
Attenuation Coefficient	at 1310nm	al D // 1000	≤ 0.40	≤ 0.40	≤ 0.40	≤ 0.40
	at 1550nm	dB/km -	≤ 0.30	≤ 0.30	≤ 0.30	≤ 0.30
Chromatic Dispersion	at 1290nm ~ 1330nm	n a lana luna	≤ 2.8	≤ 2.8	≤ 2.8	≤ 2.8
	at 1550 nm	ps/nm.km	≤ 18	≤ 18	≤ 18	≤ 18
Zero Dispersion Wavelength		nm	1300 ~ 1324	1300 ~ 1324	1300 ~ 1324	1300 ~ 1324
Zero D	Zero Dispersion Slope		≤ 0.095	≤ 0.095	≤ 0.095	≤ 0.095
PME	O Coefficient	ps/√ km	≤ 0.4	≤ 0.4	≤ 0.4	≤ 0.4
Cut-o	ff 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
Clado	ding Diameter	<i>µ</i> m	125 ± 1	125 ± 1	125 ± 1	125 ± 1
Core/Clad	concentricity error	<i>µ</i> m	≤ 0.8	≤ 0.8	≤ 0.8	≤ 0.8
Claddin	g Non-circularity	%	≤ 1	≤ 1	≤ 1	≤1
Coat	ing Diameter	ЩM	245 ± 15	245 ± 15	245 ± 15	245 ± 15

Multi-Mode Fiber

					Specification		
Attribute	Detail	Unit	MM62.5 (OM1)	MM50 (OM2)	MM50 (OM3)	MM50 (OM4)	MM50 (OM5)
Attenuation	at 850nm	– dB/km	≤ 3.5	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0
Coefficient	at 1300nm	– ud/kiii	≤ 1.5	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
	at 850nm		≥ 200	≥ 500	≥ 1500	≥ 3500	≥ 3500
Bendwidth	at 953nm	MHz.km	-	-	-	-	≥ 1850
	at 1300 nm	_	≥ 500	≥ 500	≥ 500	≥ 500	≥ 500
Numerical Ap	erture	-	0.275 ± 0.015	0.20 ± 0.015	0.20 ± 0.015	0.20 ± 0.015	0.20 ± 0.015
Core Diame	eter	μm	62.5 ± 3.0	50 ± 3.0	50 ± 3.0	50 ± 3.0	50 ± 3.0
Cladding Dia	meter	μm	125 ± 2.0	125 ± 2.0	125 ± 2.0	125 ± 2.0	125 ± 2.0
Cladding Non-c	Cladding Non-circularity		≤ 2.0	≤ 2.0	≤ 2.0	≤ 1.0	≤ 1.0
Core/Cladding Conc	Core/Cladding Concentricity Error		≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0
Coating Diar	neter	μm	245 ± 15	245 ± 15	245 ± 15	245 ± 15	245 ± 15



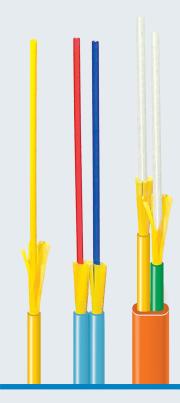
OPTICAL Cable





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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

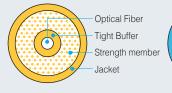
Application

- 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

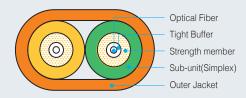
Cable Cross Section







[Duplex ZIP Cable]



[Duplex Twin Flat]

Standard Cable Information

Type	Number of	Buffer	Cable	Cable	Min. Bending	Tensile	e Load
	Fiber	Diameter (ﷺ)	Diameter (mm)	Weight (kg/km)	Radius (mm)	Installation (N)	Operation (N)
		600 ± 50	1.6	3.0	24	90	50
		000 ± 30	1.8	3.5	27	100	60
Simplex	1	900 ± 50	2.0	4.0	30	150	70
			2.4	6.5	36	190	90
			3.0	9.0	45	200	100
		600 ± 50	1.6*3.2	6.5	24	180	80
			1.8*3.6	7.5	27	200	100
Duplex ZIP	2		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
Duplex Twill Flat			(2.8 SP) 3.8*6.6	25	38	400	200

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

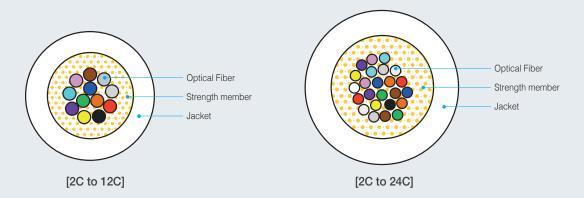
Application

- 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 Cable Fiber Diameter		Approx. Cable Weight	Min. Bend	ing Radius	Tensile Load	
i ibei	(mm)	(kg/km)	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

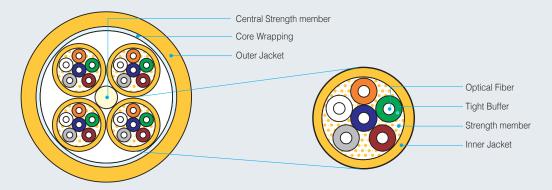
Application

- 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		Tight Buffer	Cable	Approx. Cable	Min.Bending	Tensile	e Load
Fiber		Diameter (µm)	Diameter (mm)	Weight (kg/km)	Radius (mm)	Installation (N)	Operation (N)
2	2F x 1U		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	600 ± 50	6.1	34	600	600	300
12	12F x 1U	or	6.5	41	65	600	300
24	24F x 1U	900 ± 50	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 900 μ m 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

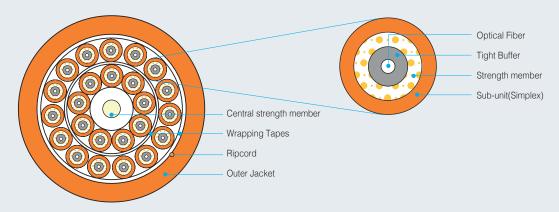
Application

- 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

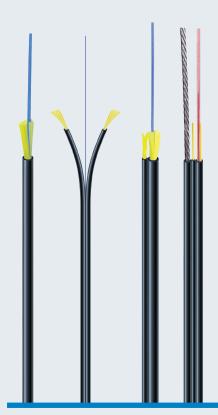


Standard Cable Information

Number of				Min.Bending	Tensile Load		
Fiber	Diameter (畑)			Radius (mm)	Installation (N)	Operation (N)	
2	4.0		6.5	43	90	400	200
4		1.6	7.2	50	100	700	400
6	600 ± 50	1.6,	8.2	72	120	900	600
8	or	2.0, 2.4,	10.0	95	150	1500	700
12	900 ± 50 2.4, 3.0	12.0	150	170	1500	900	
16		5.0	13.0	170	200	1400	800
24			16.0	190	240	1500	1000

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

FTTH Cables



Description

- Available Single-mode and Multi-mode fibers
- Flame retardant tight buffer or bare fiber

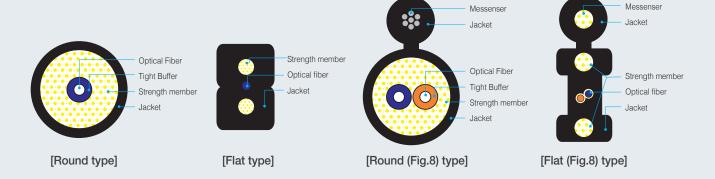
Application

- For Indoor/outdoor use

Features

- Excellent mechanical and environmental characteristics
- RoHS compliance
- Light weight and compact size and easy handling

Cable Cross Section



Standard Cable Information

Туре	Number of Fiber	Buffer Diameter (ﷺ)	Sheath Material	Strength member Material	Messenger member Material
Round,	1	600 ± 50	10711	Steel wire or	Steel wire or
Round (Fig.8), Flat, Flat (Fig.8)	2	or 650 ± 50 or 900 ± 50	LSZH or TPU	Aramid yarn or Glass yarn	Aramid yarn or Glass yarn
	4		11 0	or FRP	or FRP

Note. Cable construction and performance available on customer request.

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

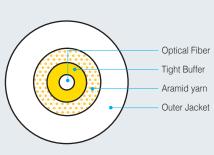
Application

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

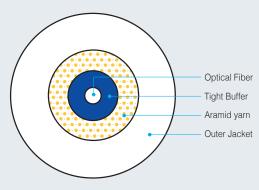
Features

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

Cable Cross Section



[MDU Compact Drop]



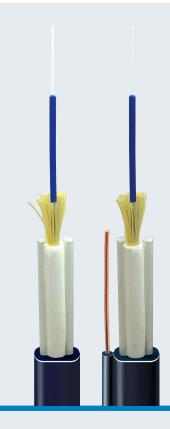
[MDU Rugged Drop]

Standard Cable Information

Type	Number of Fiber	Tight buffer	Cable Diameter	Tensil	e Load	Min. Bend	ing Radius
	OI FIDEI	(<i>μ</i> m)	(mm)	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)



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 slitter for sheath removal

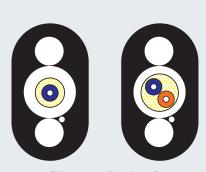
Application

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

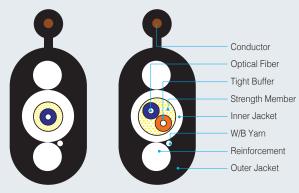
Features

- Excellent mechanical and environmental characteristics
- RoHS compliance

Cable Cross Section



[Dielectric Flat Drop]



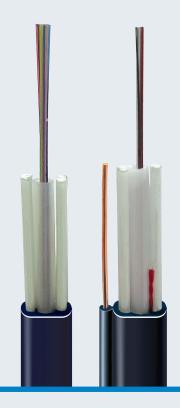
[Toneable Flat Drop]

Standard Cable Information

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

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

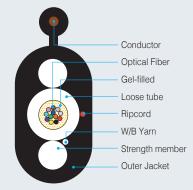
Features

- Excellent mechanical and environmental characteristics
- RoHS compliance

Cable Cross Section



[Dielectric Flat Drop]



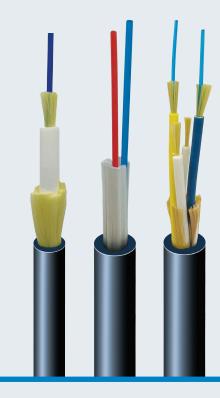
[Toneable Flat Drop]

Standard Cable Information

Туре	Number of Fiber	Cable Diameter	Tensile	Tensile Load		Min. Bending Radius	
	Of Fiber	(mm)	Installation (N)	Operating (N)	resistance (N/100mm)	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

 $\ensuremath{\text{\textbf{Note.}}}$ Cable construction and performance available on customer request.

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

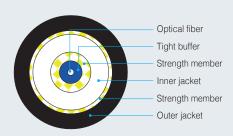
Application

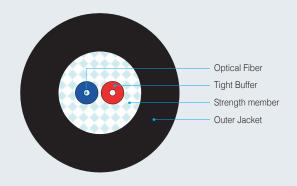
- Indoor/Outdoor drop
- FTTA or FTTx Networks

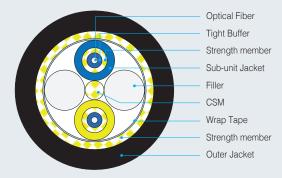
Features

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

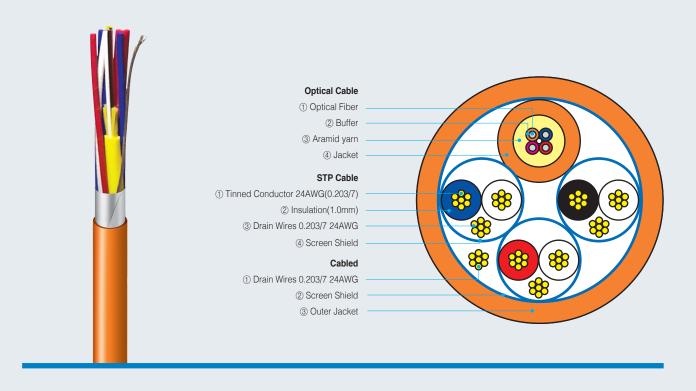
Cable Cross Section







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

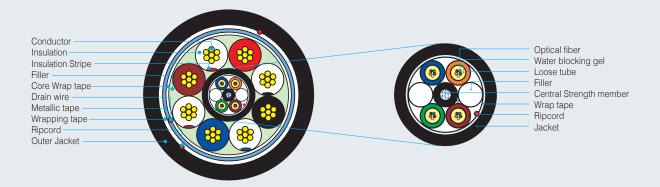
Application

- 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

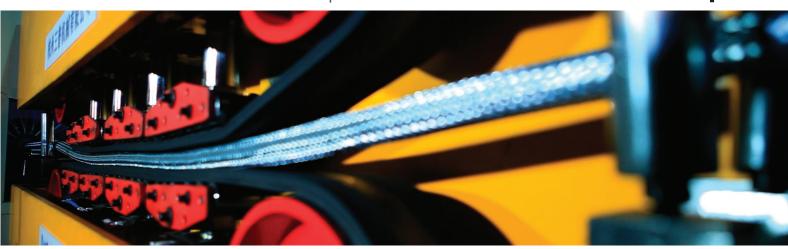
Note. Cable construction and performance available on customer request





Armored Fiber optic Cable

& Fiber optic Cable for Marine and Ship





AICI (B-type) for Marine Fiber Optic Cable	18
AICI (D-type) for Marine Fiber Optic Cable	20
QFCI for Marine Fiber Optic Cable	21
QFCU for Marine Fiber Optic Cable	22
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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

- 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



Cable properties	
Tensile strength (IEC 60794-1-21-E1) Installation operation	1000 N 500 N
Crush (IEC 60794-1-21-E3) Impact (IEC 60794-1-21-E4) Torsion (IEC 60794-1-21-E7) Cable bend (IEC 60794-1-2-E11) Cold bend (CSA 22.2 No.2556)	1000N/5min. 20 J ±180°,1m, 20cycle x10D -40°C
Temperature installation operation	-10°C ~ +60°C -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 Flre resistance

AICI(B-type) for Marine Fiber Optic Cable



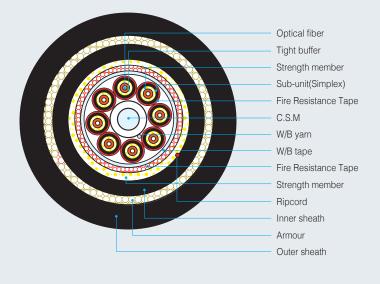
Description

- 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

- 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



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



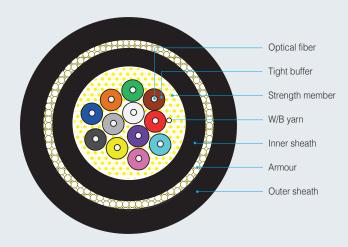
Description

- 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.

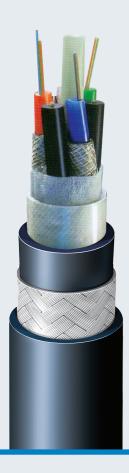
- Flame retardant : IEC 60332-1-2 & IEC 60332-3-22 (CAT.A)
- Sheath material: IEC 60092-360 (SHF1, Thermoplastic)
- Operating Temperature : -40 to +70°C



Cable properties	
Tensile strength (IEC 60794-1-21-E1) Installation operation	1000 N 500 N
Crush (IEC 60794-1-21-E3) Impact (IEC 60794-1-21-E4) Torsion (IEC 60794-1-21-E7) Cable bend (IEC 60794-1-2-E11) Cold bend (CSA 22.2 No.2556)	1000N/5min. 20 J ±180°,1m, 20cycle x10D -40°C
Temperature installation operation	-10°C ~ +60°C -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%



QFCI for Marine Fiber Optic Cable





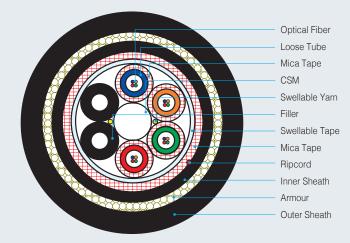
Description

- 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

- 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

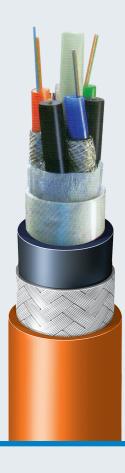


Cable properties	
Tensile strength (IEC 60794-1-2 E1) installation operation	1500 N 500 N
Crush (IEC 60794-1-2 E3) Impact (IEC 60794-1-2 E4) Torsion (IEC 60794-1-2 E7) Cable bend (IEC 60794-1-2 E11) Cold bend	3000 N/10cm 30 J ±1turn/1m ×10D -40°C
Temperature installation operation	-10° ~ +60° -40° ~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





QFCU for Marine Fiber Optic Cable





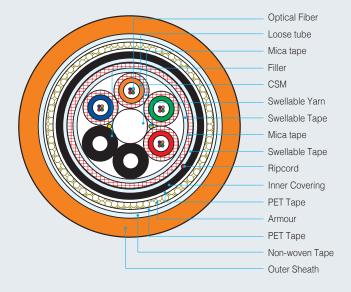
Description

- 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

- 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℃



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



ABS



LR



UL & cUL



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