



®

KamaxOptic
Communication Co., Ltd.

Product *Guide*



Armoured Optic Cable Products

KOC provide a series of armoured optic cable and termination solutions. They are widely used in astronautics, aeronautics, ship, railway and other industrial or field area. With the excellent mechanical performance, armoured optic cable can prevent the fiber from being broken by high tensile or crush strenght. Armoured optic cable is a perfect solution for the security of your fiber optic communication system.



Kamaxoptic Communication Co., Ltd.

KOC Product Guide -2.2.2 v. 02

www.koc.com.cn
www.kamaxoptics.com



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1. Armoured Optic Cable

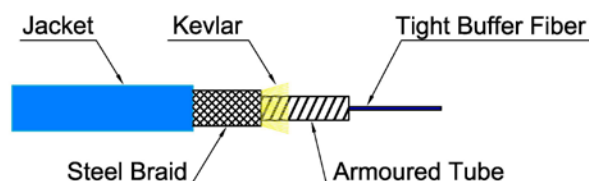
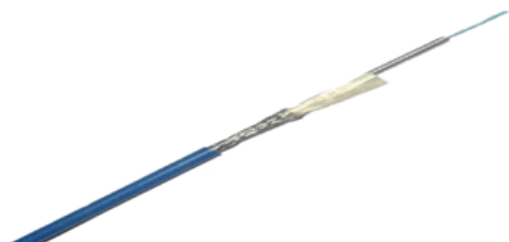
APPLICATIONS

- Military applications
- Mobile base station
- FTTx, CATV etc, outdoor and indoor applications
- Industrial equipments

FEATURES

- Rodent and cursh resistant
- Anti-interference
- Flame resistant
- Emergency fiber system repair

1.1 Simplex Armoured Optic Cable



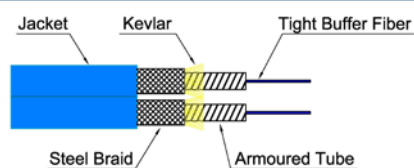
SPECIFICATIONS

Item	Units	Single Mode	Multimode
Fiber Type	/	G652D (9/125); G655 (9/125); G657A/B (9/125)	OM1 (50/125); OM2 (62.5/125); OM3/OM4 (50/125)
Max. Attenuation	dB/Km	0.4dB @ 1310nm 0.3dB @ 1550nm	3.5dB @ 850nm 1.5dB @ 1300nm
Operating Temperature	Deg. C	-40~+85	
Outer Diameter	mm	2.85±0.1mm	
Weight	Kg/Km	18	
Max. Tensile Resistance	N	600 (long term) / 800 (short term)	
Max, Crush Resistance	N/100mm	3000 (long term) / 5000 (short term)	

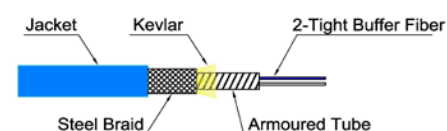
1.2 Duplex Armoured Optic Cable



Type 1:



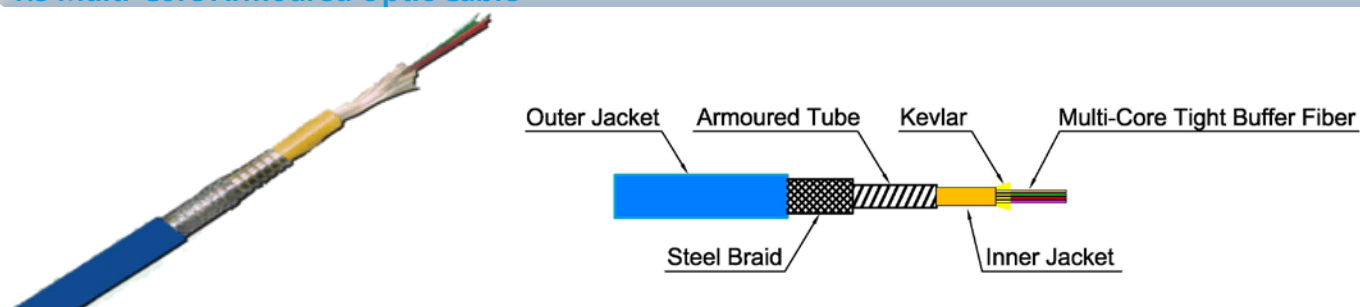
Type 2:



SPECIFICATIONS

Item	Units	Single Mode	Multimode
Fiber Type	/	G652D (9/125); G655 (9/125); G657A/B (9/125)	OM1 (50/125); OM2 (62.5/125); OM3/OM4 (50/125)
Max. Attenuation	dB/Km	0.4dB @ 1310nm 0.3dB @ 1550nm	3.5dB @ 850nm 1.5dB @ 1300nm
Operating Temperature	Deg. C	-40~+85	
Outer Diameter	mm	Type 1: 5.7±0.1mm / Type 2: 3.2±0.1mm	
Weight	Kg/Km	Type 1: 65Kg / Type 2: 75Kg	
Max. Tensile Resistance	N	600 (long term) / 800 (short term)	
Max, Crush Resistance	N/100mm	3000 (long term) / 5000 (short term)	

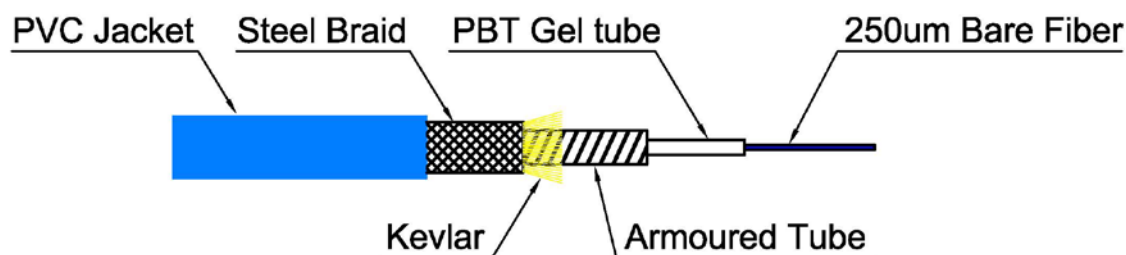
1.3 Multi-Core Armoured Optic Cable



SPECIFICATIONS

Item	Units	Single Mode		Multimode	
Fiber Type	/	G652D (9/125); G655 (9/125); G657A/B (9/125)		OM1 (50/125); OM2 (62.5/125); OM3/OM4 (50/125)	
Max. Attenuation	dB/Km	0.4dB @ 1310nm 0.3dB @1550nm		3.5dB @ 850nm 1.5dB @1300nm	
Operating Temperature	Deg. C	-40~+85			
Core Number	pcs	4	6	8	12
Cable OD (with Braid)	mm	6.4±0.1mm		7.4±0.1mm	
Cable OD (withou Braid)	mm	5.9±0.1mm		6.9±0.1mm	
Weight	Kg/Km	65		75	
Min. Bending Radius	mm	65 (G652D fiber)			
Max. Tensile Resistance	N	600 (long term) / 800 (short term)			
Max. Crush Resistance	N/100mm	3000 (long term) / 5000 (short term)			

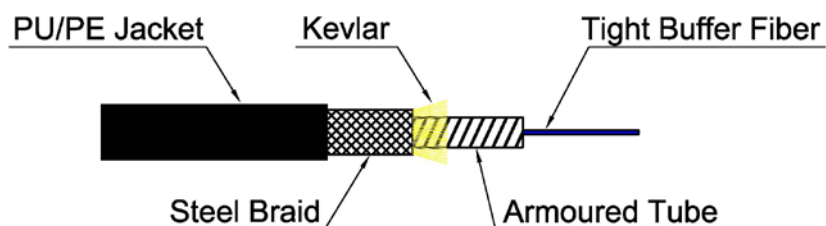
1.4 Waterproof Armoured Optic Cable



SPECIFICATIONS

Item	Units	Single Mode
Fiber Type	/	G652D (9/125); G657A/B (9/125)
Max. Attenuation	dB/Km	0.4dB @ 1310nm 0.3dB @ 1550nm
Core Number	pcs	1 / 2 / 4 / 6 / 8 / 12
Cable Diameter	mm	1~2 cores: 5.0mm / 4~6 cores: 6.5mm
Jacket materials	/	PVC / LSZH / PE / PU
Operating Temperature	Deg. C	PVC: -40~+85
Max. Tensile Resistance	N	1000
Max. Crush Resistance	N/100mm	1500

1.5 Tactical Armoured Optic Cable



SPECIFICATIONS

Item	Units	Single Mode	Multimode
Fiber Type	/	G652D (9/125); G657A/B (9/125)	OM1 (50/125); OM2 (62.5/125); OM3/OM4 (50/125)
Max. Attenuation	dB/Km	0.4dB @ 1310nm 0.3dB @1550nm	3.5dB @ 850nm 1.5dB @1300nm
Core Number	pcs	1 / 2 / 4 / 6	
Cable Diameter	mm	5.0±0.1mm	
Weight	Kg/Km	30	
Operating Temperature	Deg. C	PE: -20~+40 PU: -20~+70 PVC: -40~+85 LSZH: -20~+60	
Max. Tensile Resistance	N	1200	
Max. Crush Resistance	N/100mm	3000	

2. Armoured Optic Cable Termination

2.1 Simplex Armoured Patch Cord



SPECIFICATIONS

Item	Units	Single Mode	Multimode
Fiber Type	/	G652D (9/125); G657A/B (9/125)	OM1 (50/125); OM2 (62.5/125); OM3/OM4 (50/125)
Insertion Loss	dB	Typical <0.2dB Max. <0.3dB	
Return Loss	dB	UPC >50dB APC >60dB	>35dB
Repeatability	dB	< 0.1dB	
Max. Tensile Resistance	N	Connector: 70N / Cable: 200N	
Max, Crush Resistance	N/100mm	3000 (long term) / 5000 (short term)	
Operating Temperature	Deg. C	-40~+85	
Cable Diameter	mm	2.85	
Connector Type	/	SC / FC / ST / LC / MU / E2000	

2.2 Duplex Armoured Patch Cord

Type 1:



Type 2:



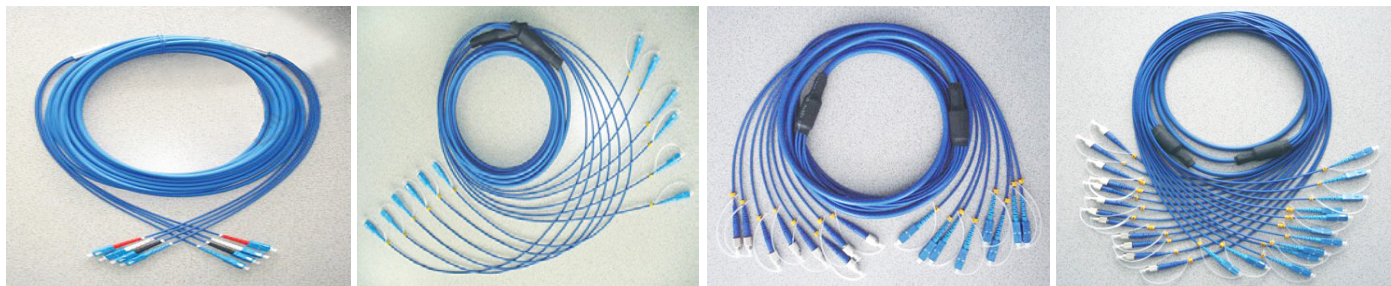
SPECIFICATIONS

Item	Units	Single Mode	Multimode
Fiber Type	/	G652D (9/125); G657A/B (9/125)	OM1 (50/125); OM2 (62.5/125); OM3/OM4 (50/125)
Insertion Loss	dB	Typical <0.2dB Max. <0.3dB	
Return Loss	dB	UPC >50dB APC >60dB	>35dB
Repeatability	dB	< 0.1dB	
Max. Tensile Resistance	N	Connector: 70N / Cable: 200N	
Max, Crush Resistance	N/100mm	3000 (long term) / 5000 (short term)	
Operating Temperature	Deg. C	-40~+85	
Cable Diameter	mm	Type 1: 5.7±0.1mm / Type 2: 3.2±0.1mm	
Connector Type	/	SC / FC / ST / LC / MU / E2000 / MTRJ	

Type 1: One fiber in one tube, without fanout kit.

Type 2: Two fibers in one tube, with fanout kits. Standard length of fanout tube is 500mm.

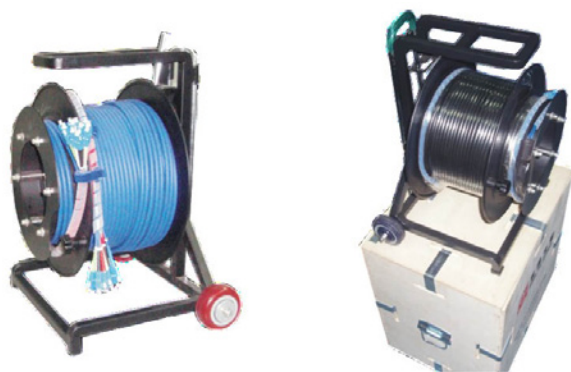
2.3 Multi-Core Armoured Patch Cord



SPECIFICATIONS

Item	Units	Single Mode	Multimode
Fiber Type	/	G652D (9/125); G657A/B (9/125)	OM1 (50/125); OM2 (62.5/125); OM3/OM4 (50/125)
Core Number	pcs	4 / 6 / 8 / 12 / 16	
Insertion Loss	dB	Typical <0.2dB Max. <0.3dB	
Return Loss	dB	UPC >50dB APC >60dB	>35dB
Repeatability	dB	< 0.1dB	
Max. Tensile Resistance	N	Connector: 70N / Cable: 600N	
Max. Crush Resistance	N/100mm	3000 (long term) / 5000 (short term)	
Operating Temperature	Deg. C	-40~+85	
Cable Diameter	mm	4~6 cores: 6.5mm / 8~12 cores: 7.5mm / 16 cores: 8.9mm	
Length of fanout tube	mm	Standard: 500mm	
Connector Type	/	SC / FC / ST / LC / MU / E2000	

2.4 Cable Reel Car



APPLICATIONS

- For quickly optic cable laying and retrieval
- For easy to carry the cable reel

SPECIFICATIONS

Type	Cable OD	Cable Store Length	Dimension
CRC-S	5.0mm	100 meters	410(W)*450(H)*325(D)
	6.5mm	60 meters	
	7.5mm	60 meters	
CRC-M	5.0mm	300 meters	490(W)*530(H)*325(D)
	6.5mm	200 meters	
	7.5mm	200 meters	
CRC-L	5.0mm	500 meters	590(W)*580(H)*365(D)
	6.5mm	400 meters	
	7.5mm	400 meters	

2.5 Tactical Armoured Optic Patch Cord



APPLICATIONS

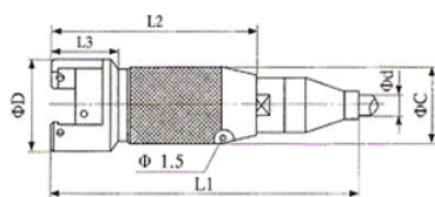
- Fiber optic military communication
- Radar vehicle
- Television re-broadcasting vehicle
- Emergency fiber cable repairing
- Flange socket type can be mounted on the frame panel
- Socket type without the mounting flange, can be connected with each other or with flange socket type.
- Cable reel car optional

FEATURES

- Optic fiber transmission, anti-interference
- Excellence mechanical performance
- Water resistant and dust-proof
- Self connection, not use adapter

SPECIFICATIONS

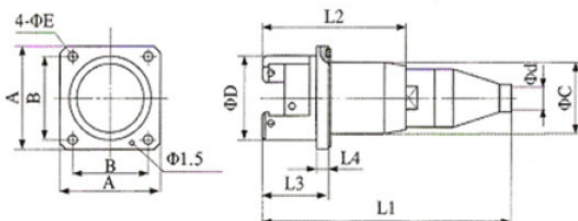
Item	Unit	Single Mode		Multimode	
Core Number	Pcs	2~4 fibers	6 fibers	2~4 fibers	6 fibers
Insertion Loss	dB	< 1	< 1.2	< 0.8	<1
Return Loss	dB	>50			
Max. Tensile Resistance	N	1000			
Max. Crush Resistance	N	600 (long term) / 800 (short term)			



Socket

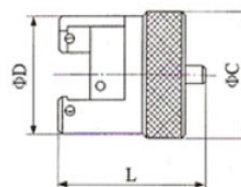
Socket

Housing S/N	L1	L2	L3	D	d	C
YG I	135	81.5	28.5	31.0	4-5.5	27.0
YG II	135	81.5	28.5	40.0	4-6.5	36.5
YG III	135	81.5	28.5	52.5	4-7.5	48.5



Flanging socket

Housing S/N	A	B	E	L1	L2	L3	L4	D	d	C
YG I	34	26.5	3.6	145	81.5	28	3	31	4-5.5	25
YG II	42	32	3.6	145	81.5	28	3	40	4-5.5	36.5
YG III	53.5	37.5	5.4	92	55	31	3.5	31	4-5.5	48.5

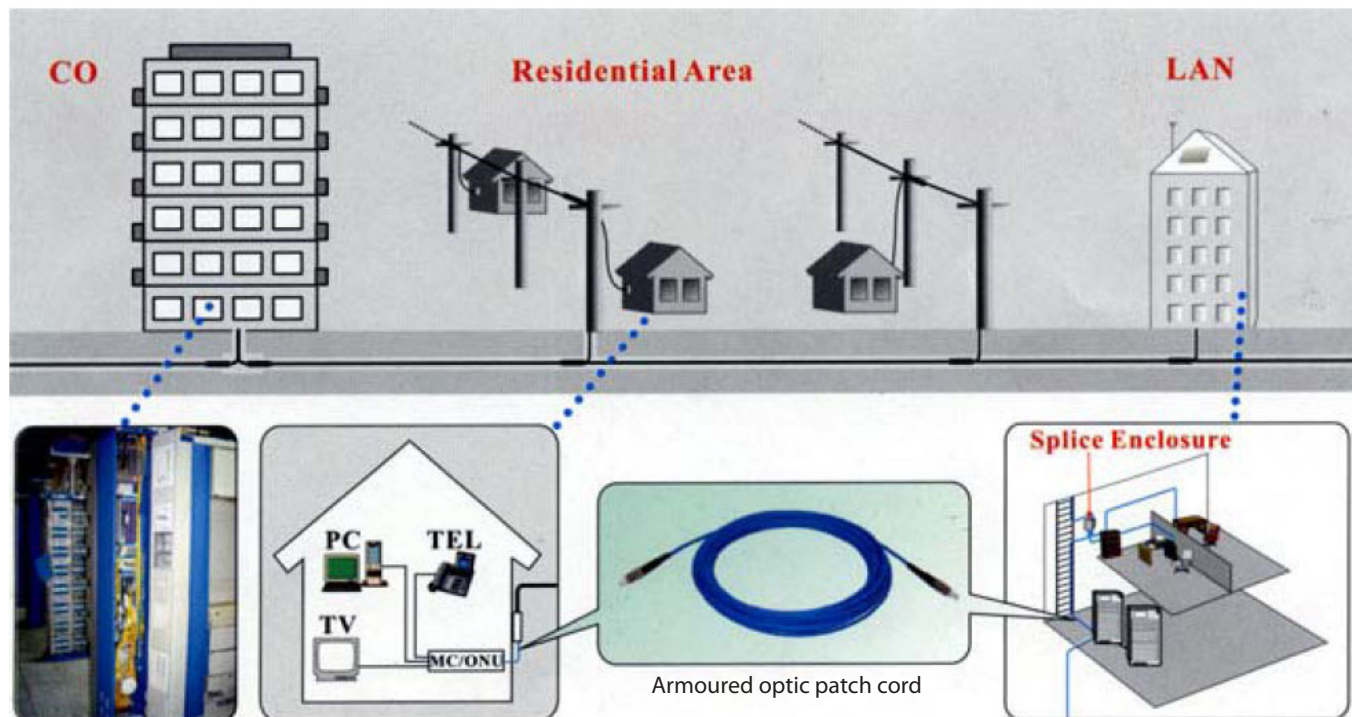


Dust cap

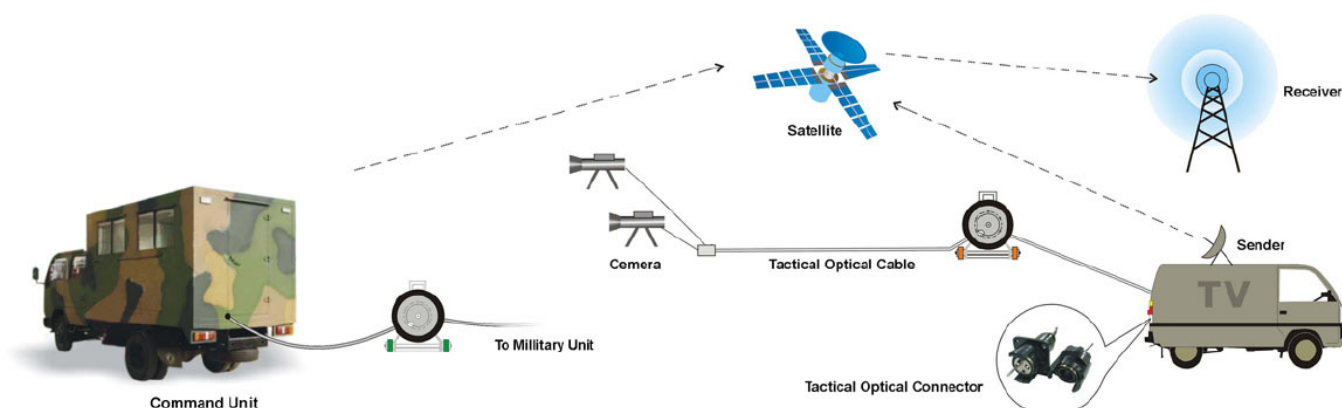
Housing S/N	L	D	C
YG I	42.0	31.0	31.8
YG II	42.0	40.0	40.8
YG III	42.0	52.5	52.8

3. Armoured Optic Cable Applications

3.1 FTTx Application



3.2 Tactical Application





4. Attachment

Full KOC Product List

1. MPO Solution

- 1.1 [MPO Rack Mount Panel .vo1](#)
- 1.2 [MPO Cassettes .vo1](#)
- 1.3 [MPO Termination .vo1](#)

2. FTTx Solution

2.1 Fiber Management

- 2.1.1 [Fiber Distribution Frame .vo1](#)
- 2.1.2 [Fiber Interconnect Carbinet .vo1](#)
- 2.1.3 [Fiber Distribution Box .vo1](#)
- 2.1.4 [Indoor Fiber Terminal Box .vo1](#)
- 2.1.5 [Indoor/Outdoor Fiber Terminal Box .vo1](#)
- 2.1.6 [User Terminal Box .vo1](#)
- 2.1.7 [Fiber Splice Enclosure .vo1](#)
- 2.1.8 [Rack Mount Patch panel .vo1](#)
- 2.1.9 [Cable Management Accessories .vo1](#)

2.2 Passive Components

- 2.2.1 [Fiber Optic Patch Cord .vo1](#)
- 2.2.2 [Armoured optic cable products .vo2](#)
- 2.2.3 [Fiber Optic Adapter .vo1](#)
- 2.2.4 [Fiber Optic Attenuator .vo1](#)
- 2.2.5 [Fiber Optic Splitter .vo1](#)
- 2.2.6 [Wavelength Division Multiplex \(WDM\) .vo1](#)
- 2.2.7 [FTTH Drop Cable FIC Connector .vo1](#)
- 2.2.8 [FTTH Drop Cable Termination .vo1](#)
- 2.2.9 [Mechanical Splice .vo1](#)

3. Active Products

- 3.1 [Rack Mount Media Converter .vo1](#)
- 3.2 [Media Converter/Transceiver .vo1](#)
- 3.3 [Transceiver Module .vo1](#)
- 3.4 [Optical Line Terminal\(OLT\) .vo1](#)
- 3.5 [Optical Network Unit\(ONU\) .vo1](#)
- 3.6 [Ethernet Fiber Switch .vo1](#)

4. Equipments and Tools

- 4.1 [Handheld OTDR .vo1](#)
- 4.2 [Optical Light Source .vo1](#)
- 4.3 [Optical Power Meter .vo1](#)
- 4.4 [Fault Locator .vo1](#)
- 4.5 [Fiber Interferometer .vo1](#)
- 4.6 [Polishing Film .vo1](#)

Note:

The products in **blue color** are the newly **updated**.