

KRC OPTICAL PVT. LTD.

"Engineered for Infinite Connectivity"

An ISO 9001:2015 Certified Company

CABLES



OPTICAL FIBER CABLE



FIBER OPTIC PATCH CORD



CAT 6 NETWORKING CABLE



POWER CABLES

FTTx



FDB/FAT BOX



LIU / FMS



PLC CASSETTE SPLITTER



JOINT ENCLOSURE / JC BOX

Premium Telecom-Grade Optical Fibre
Manufacturer | NABL Lab Tested



KRC OPTICAL PVT. LTD.

#TELECOMSOLUTIONS

KRC Optical Private Limited is a standards-driven manufacturer of Optical Fiber Cables, Networking Cables, Power Cables, and Passive Fiber Components for telecom, broadband, and enterprise networks. With two dedicated production units — Mundka (Delhi) for fiber optics and Bhiwadi (Rajasthan) for copper and electrical cables — we deliver over 30,000 KM of cumulative monthly capacity.

Our manufacturing ecosystem operates under integrated ISO systems (9001, 14001, 45001, 27001) with BIS-approved and NABL-tested quality controls. All products comply with IEC 60793, IEC 60794, IS 694/1554, and relevant TEC/GR requirements, ensuring consistent performance and long-term network reliability. KRC Optical is also OEM Assessed on the GeM Portal for Fiber Cables, Networking Cables, and related Optical Products, affirming our technical capability, quality assurance, and compliance maturity for government procurement.

Unit 1 – Mundka, Delhi
Focus: Optical Fiber Cables, Patch Cords, Drop Cables, FDMS/LIU, Joint Enclosures
Capacity : 10,000 KM fiber / 20,000 KM FRP monthly
Strength: Full IEC conformity with NABL type-testing for optical, mechanical, and environmental parameters.

Unit 2 – Bhiwadi, Rajasthan
Focus: CAT6/CAT6A Networking Cables, House Wires, Power & Control Cables
Capacity: 20,000 KM monthly
Strength: BIS-approved in-house lab for conductor resistance, insulation, flame, and electrical performance testing.

KRC integrates automated production, multi-stage quality checks, and real-time process monitoring to ensure precision, low attenuation, and durable field performance. Our solutions support telecom operators government projects, OEMs, EPC contractors, and enterprise integrators across India.

KRC Optical delivers engineering accuracy, compliance-first manufacturing, and dependable connectivity solutions that strengthen India's digital infrastructure.





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FRP ROD

FRP Rod is a high-strength dielectric reinforcement member used in optical fibre cables. Manufactured through continuous pultrusion of E-Glass roving and hermeset resin, it provides excellent tensile performance, dimensional accuracy, and long splice-free lengths for stable cable construction.

Available from 0.50 mm to 3.50 mm, the product supports UV and Thermal FRP applications for OFC designs such as duct, aerial, ADSS, and underground cables. Monthly production capacity: 20,000 km.



Available from 0.50 mm to 3.50 mm, the product supports UV and Thermal FRP applications for OFC

Features (Including Technical Performance)

- High tensile strength $\geq 140 \text{ kg/mm}^2$ for robust cable reinforcement.
- High tensile modulus $\geq 5000 \text{ kg/mm}^2$ ensuring structural stability.
- Flexural strength $\geq 70 \text{ kg/mm}^2$ with flexural modulus $\geq 5000 \text{ kg/mm}^2$.
- Tight diameter tolerance ± 0.04 to $\pm 0.05 \text{ mm}$ with ovality $< 0.05 \text{ mm}$.
- Low water absorption $\leq 0.1\%$ ($> 1 \text{ mm}$) and $\leq 0.2\%$ ($\leq 1 \text{ mm}$).
- Excellent thermal stability at 80°C (24 hrs) and 100°C (5 days).
- Very low thermal expansion coefficient $\leq 6.6\text{E-}06 \text{ cm/}^\circ\text{C}$.
- Fully dielectric, corrosion-resistant, non-metallic strength member.
- Available in $> 50 \text{ km}$ splice-free continuous lengths.



Parameter	UNIT	VALUE / RANGE
Diameter Range	mm	0.50-3.50
Diameter Tolerance	mm	+0.04 to +0.05
Ovality	mm	<0.05
Glass Content	%	80(by weight)
Density	gm/cc	1.90-2.20
Ultimate Tensil Strength	kg/mm ²	>140
Tensile Modulus	kg/mm ²	>5000
Flexural Strength	kg/mm ²	>70
Flexural Modulus	kg/mm ²	>5000
Elongation at Break	%	2.5-4.0
Water Absorption (24 hrs)	%	<0.1(>1 mm),<0.2 (<1mm)
Minimum Bend Radius	mm	25 x D
Thermal Expansion	cm/C	<6.6E-06
Heat Stress Test(80 C, 24 hrs)	-	No decomposition/delamination
Thermal Resistance(100 C, 5 days)	-	Complied
Water Resistance(100 C 5 days)	-	Complied
Continuous Length	km	>50km
Monthly Productions Capacity	km/month	20,000 km



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UNITUBE NON-METALLIC MICRO CABLE

The cable contains 250 μm Single-Mode or Multi-Mode fibers placed inside a loose tube made from high-strength plastic. The tube is filled with thixotropic jelly for moisture protection. A layer of aramid or high-strength glass yarn is applied around the core to add tensile strength. The outer jacket is made of HDPE or LSZH and can be black or colored. Standard fiber type: G652D

Main Construction:

- 250 μm SM/MM fibers (G652D)
- Jelly-filled loose tube
- Aramid or glass yarn strength layer
- HDPE/LSZH sheath

Characteristics

- Non-metallic design prevents electromagnetic and radio interference.
- Compact structure reduces loose-tube shrinkage.
- High-strength yarn reinforcement for better mechanical performance.
- Jelly filling provides strong moisture resistance.
- Flexible and easy to install.
- Lightweight, small diameter, suitable for blowing installation.



Optical Characteristics				
Colors Details	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, violet, Pink, Natural (Natural as applicable and each have a natural fiber)			
Type		G.652	50/175 μm	62.5/125 μm
Attenuation($\pm 20^\circ\text{C}$)	850nm		<3.0dB/km	<0.30dB/km
	1300nm		<1.0dB/km	<1.0dB/km
	1310nm	$\leq 0.36\text{dB/km}$		
	1550nm	$\leq 0.22\text{dB/km}$		
Bandwidth(Class A)	850nm		>500MHz.km	>200MHz.km
	1300nm		>1000MHz.km	>600MHz.km
Numerical Aperture				0.275+0.015NA
Cable Cut off Wave Length		$\leq 1260\text{nm}$		

Technical Parameters						
Model	Fiber Count	Cable Od (mm)	Cable Weight kg/km	Tensile Strength Long Short Term	Crush Resistance Long Short Term N/10cm	Bending Radius Static/Dynamic mm
UTKRC42	2-12	4.2	15 \pm 3kg	60/150	800N/10cm	10D/20D

Environmental Characteristics	
Storage Operating Temperature	-20 $^\circ\text{C}$ +70 $^\circ\text{C}$



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FTTH INDOOR OFC (1F TO 12F)

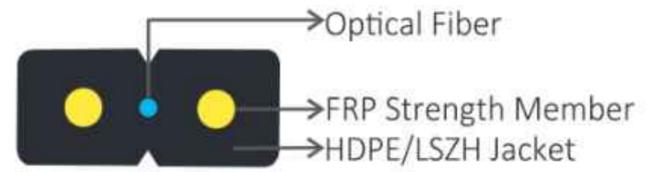
FTTH Indoor OFC is designed for direct use inside homes and buildings. It contains low-bend optical fibers placed in a compact flat cable structure for stable signal performance. Two parallel FRP strength members protect the fiber from bending stress and crush impact during installation. The outer jacket is available in PVC, FR-PVC, or LSZH to meet different indoor safety requirements. Suitable for 1F to 12F configurations.

Characteristics

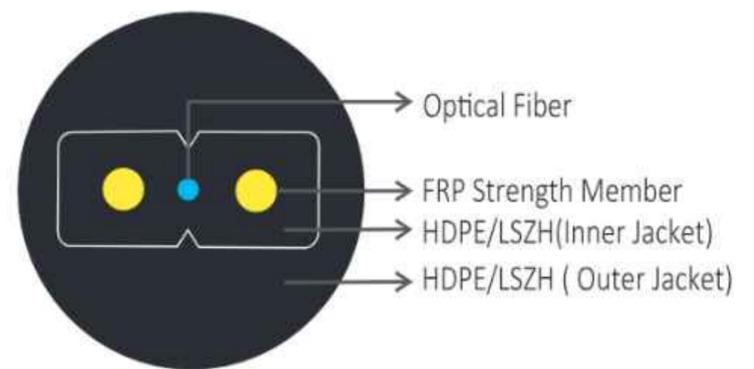
- Low-bend fiber ensures strong bandwidth performance and consistent transmission quality.
- Twin FRP strength members provide mechanical protection and maintain cable shape.
- Light, slim, and easy to route through ducts and indoor pathways.
- Flute-style structure enables fast stripping and quicker termination.
- Simple to splice, reducing installation effort.
- Multiple jacket options (PVC/FR-PVC/LSZH) for varied indoor environments and compliance needs.

Product Details

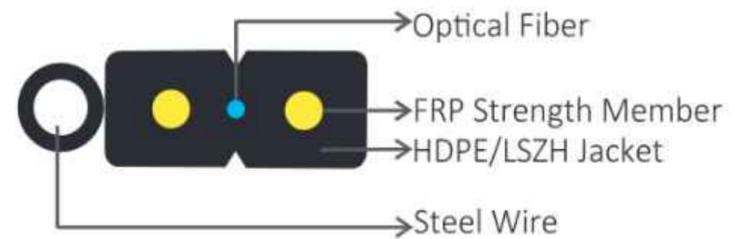
Geometrical Characteristics		
Model	FTTH-SM2030	
Type	G.657A1/A2	
Attenuation(+20°C)	1310nm	<0.40dB/km
	1550nm	<0.3dB/km
Numerical Aperture		
Cable Cut-off Wave Length		



FTTH Indoor Optical Fiber



FTTH Double Jacket Optical Fiber



FTTH Figure 8 Optical Fiber

Technical Parameters					
Model	Cable OD (mm)	Cable Weight kg/km	Tensile Strength Long Short Term	Crush Resistance Long Short Term n/100mm	Bending Radius Static/Dynamic mm
FTTH-SM2030	(2.0±0.2)x(3.0±0.2)	8	30/60	300/1000	10/30
FTF8-SM2030	(2.0±0.2)x(5.0±0.2)	20	60/120	300/1000	15/35
FTDJ-SM2030	4.5	16	30/60	300/1000	10/30

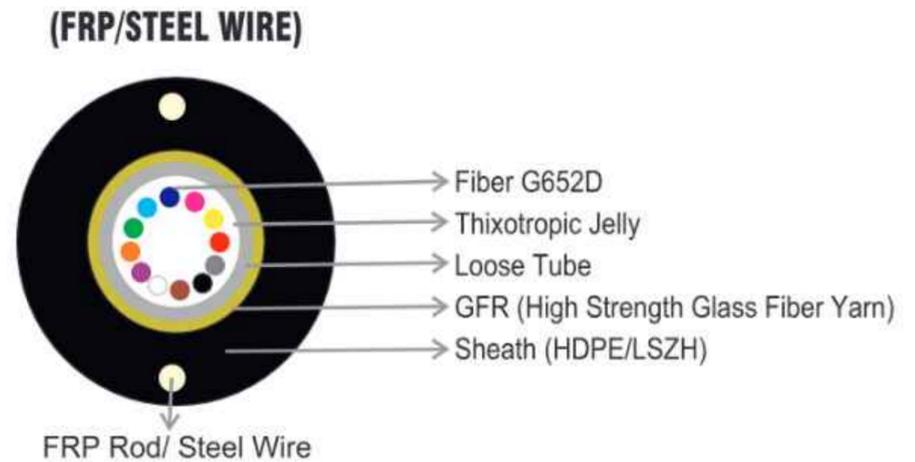
Environmental Characteristics	
Storage Operating Temperature	-20°C-+60°C



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UNITUBE UNARMORED OFC

The Unitube Unarmoured Optical Fiber Cable is designed with 2 to 24 fibers housed inside a single central loose tube. The tube is filled with thixotropic jelly to provide continuous moisture blocking and protect the fibers during handling and installation. Depending on tensile strength requirements, the cable can be reinforced with either FRP rods or steel wires. The outer jacket is available in HDPE or LSZH to ensure durability, UV resistance, and suitability for outdoor and duct installations.



Characteristics

- Unitube structure supports 2F to 24F configurations in a compact, efficient layout.
- Thixotropic jelly inside the loose tube ensures strong longitudinal moisture resistance.
- Optional FRP rod or steel wire reinforcement provides stable tensile performance for various installation conditions
- Non-armoured design offers flexibility and reduced weight for easier deployment.
- HDPE or LSZH sheath options deliver protection against weather, abrasion, and UV exposure.
- Designed to meet applicable IEC 60793/60794 standards for optical and mechanical reliability.

Optical Characteristics				
Colors Details	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, violet, Pink, Natural (Natural as applicable and each have a natural fiber)			
Type		G.652 D	50/175µm	62.5/125µm
Attenuation(±20°C)	850nm		≤3.0dB/km	≤0.30dB/km
	1300nm		≤1.0dB/km	≤1.0dB/km
	1310nm	≤0.36dB/km		
	1550nm	≤0.22dB/km		
Bandwidth(Class A)	850nm		≥500MHz.km	≥200MHz.km
	1300nm		≥1000MHz.km	≥600MHz.km
Numerical Aperture			0.200±0.015NA	0.275±0.015NA
Cable Cut off Wave Length		≤1260nm		

Technical Parameters						
Model	Fiber Count	Cable Od (mm)	Cable Weight kg/km	Tensile Strength Long Short Term	Crush Resistance Long Short Term N/10cm	Bending Radius Static/Dynamic mm
UTUA/KR/55	2-12	5.5	23±5%	400	1000N/10CM	10D/20D
UTUA/KR/ 58	2-12	5.8	25±5%	400	1000N/10CM	10D/20D
UTUA/KR/60	2-12	6.0	28±5%	400	800N/10CM	10D/20D
UTUA/KR/62	2-12	6.2	30±5%	500	1000N/10CM	10D/20D
UTUA/KR/65	2-12	6.5	34±5%	700	1000N/10CM	10D/20D
UTUA/KR/75	2-24	7.5	40±5%	800	1000N/10CM	10D/20D
Environmental Characteristics						
Storage Operating Temperature					-20°C-+70°C	



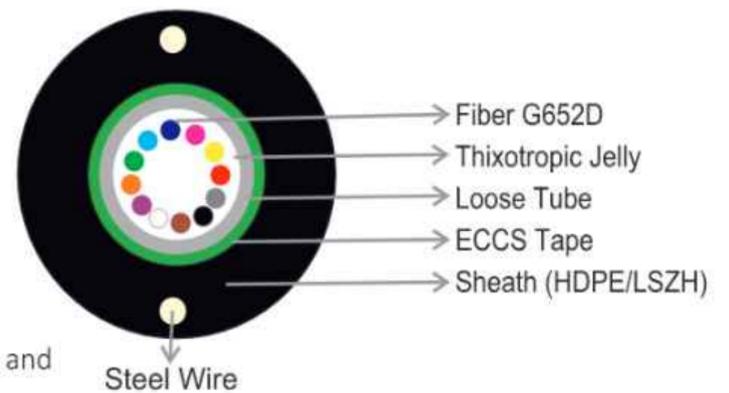
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UNITUBE ARMORED OFC

The Armoured Unitube Optical Fiber Cable is built with 2 to 24 fibers placed inside a central loose tube filled with thixotropic jelly for moisture protection. Around the tube, a corrugated ECCS (Electro-Chrome-Coated Steel) tape of 0.245 mm is applied to provide mechanical armour against rodent damage, impact, and crushing forces. The cable can include FRP or steel wire strength members depending on installation needs. The outer jacket is available in HDPE or LSZH for outdoor durability and UV resistance.

Characteristics

- Unitube construction supports 2F to 24F fiber counts in a compact, robust structure.
- Thixotropic jelly ensures excellent moisture blocking and fiber stability.
- 0.245 mm corrugated ECCS tape armour provides strong protection against rodents and mechanical impact.
- Optional FRP rod or steel wire strength members enhance tensile performance for longer pulls or harsher routes.
- HDPE or LSZH jacket options ensure weather resistance, UV stability, and long service life.
- Complies with IEC 60793/60794 optical and mechanical performance standards.



Optical Characteristics				
Colors Details	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, violet, Pink, Natural (Natural as applicable and each have a natural fiber)			
Type		G.652	50/175µm	62.5/125µm
Attenuation(+20°C)	850nm		≤3.0dB/km	≤0.30dB/km
	1300nm		≤1.0dB/km	≤1.0dB/km
	1310nm	≤0.36dB/km		
	1550nm	≤0.22dB/km		
Bandwidth(Class A)	850nm		≥500MHz.km	≥200MHz.km
	1300nm		≥1000MHz.km	≥600MHz.km
Numerical Aperture			0.200±0.015NA	0.275±0.015NA
Cable Cut off Wave Length		≤1260nm		

Technical Parameters						
Model	Fiber Count	Cable Od (mm)	Cable Weight kg/km	Tensile Strength Long Short Term	Crush Resistance Long Short Term N/10cm	Bending Radius Static/Dynamic mm
UTA/KR275	2	7.5	55±5KG	800/1500	2000N/CM	10D/20D
UTA/KR475	4	7.5	55±5KG	800/1500	2000N/CM	10D/20D
UTA/KR675	6	7.5	55±5KG	800/1500	2000N/CM	10D/20D
UTA/KR1275	12-24	7.5	55±5KG	800/1500	2000N/CM	10D/20D

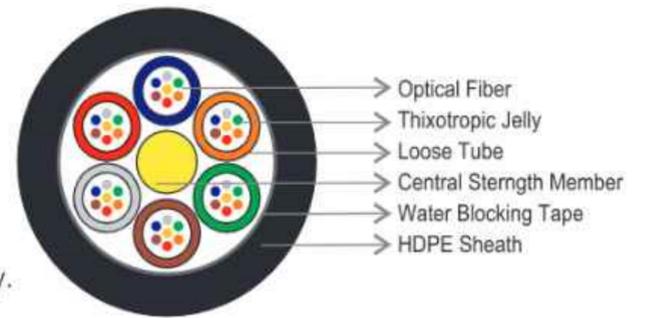
Environmental Characteristics	
Storage Operating Temperature	-20°C-+70°C



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MULTI TUBE UNARMORED OFC (12F to 96F)

The Multi-Tube Unarmoured Optical Fiber Cable is designed for medium- to high-fiber-count applications, ranging from 12F to 96F. Fibers are distributed across multiple loose tubes, each filled with hydrolysis-resistant thixotropic jelly for moisture protection and fiber stability. A central FRP rod acts as the main strength member to maintain cable shape and tensile strength. The entire core is wrapped with water blocking tape / yarn to block water ingress and bound to improve water blocking, crush resistance, and mechanical reliability. An HDPE outer sheath provides protection for outdoor duct or aerial installations where armour is not required.



Characteristics

- Multi-tube layout supports higher fiber counts (12F to 96F) while maintaining stable geometry.
- Loose tubes filled with jelly ensure strong moisture protection and optical stability.
- Central FRP strength member provides rigidity and balanced tensile support.
- Designed for good crush resistance and flexibility, supporting smooth handling during installation.
- Water-blocking filling compound improves cable watertightness and prevents longitudinal water entry.
- HDPE sheath offers durability, UV protection, and long-term environmental resistance.

Optical Characteristics				
Colors Details		Blue, Orange, Green, Brown, Slate, Natural (Natural as applicable and each have a natural fiber)		
Type		MLTUN/SM	MLTUN/MM50	MLTUN/MM625
			50/125μm	62.5/125μm
Attenuation(+20°C)	@850nm		≤0.30ddB/km	≤0.30ddB/km
	@1300NM		≤1.0dB/km	≤1.0dB/km
	@1310NM	≤0.36dB/KM		
	@1550NM	≤0.22dB/KM		
Bandwidth(Class A)	@850NM		≥500MHz.km	≥200MHz.km
	@1300NM		≥1000MHz.km	≥600MHz.km
Numerical Aperture			0.200±0.015NA	0.275±0.015NA
Cable Cut-off Wave Length		≤1260NM		

Optical Characteristics								
Model	Fiber Count	Tubes	Fillers	Cable Odmm	Cable Weight kg/km	Tensile Strength Long Short Term	Crush Besistanre Long Short Term N/100mm	Bending Radius Static/Dynamic mm
MTUA/KR42	6-12	4	2	8.5	65±5%	1000	200N/CM	10D/20D
MTUA/KR60		6	0	8.5	65±5%	1000	200N/CM	10D/20D
MTUA/KR60	24	6	0	8.5	65±5%	1000	200N/CM	10D/20D
MTUA/KR42		4	2	9.0	65±5%	1000	200N/CM	10D/20D
MTUA/KR44	48	4	4	10	85±5%	1000	200N/CM	10D/20D
MTUA/KR80		8	0	10	85±5%	1000	200N/CM	10D/20D
MTUA/KR80	96	8	0	11	100±5%	1000	200N/CM	10D/20D

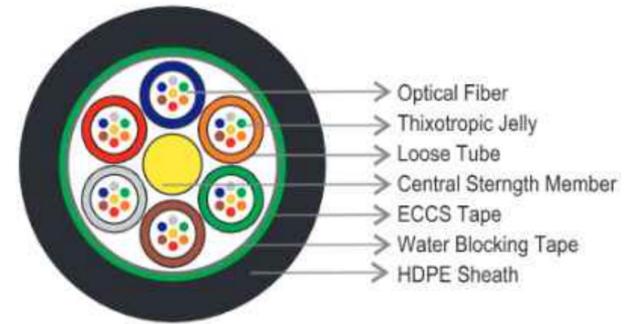
Environmental Characteristics	
Storage Operating Temperature	-40°C-+70°C



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MULTI TUBE ARMORED OFC (12F to 96F)

The Multi-Tube Armoured Optical Fiber Cable is designed for higher fiber counts ranging from 12F to 96F, built for routes requiring strong mechanical protection and long-term durability. Multiple loose tubes, each filled with hydrolysis-resistant thixotropic jelly, house the fibers and ensure stable optical performance. A central steel wire serves as the main strength member for balanced tensile performance. The entire core is wrapped with water blocking tape / yarn to block water ingress, and a corrugated ECCS tape armour layer adds protection against crush impact, rodents, and harsh installation conditions. The outer HDPE sheath provides weather and UV resistance for outdoor deployment.



Characteristics

- * Multi-tube architecture supports medium to high fiber counts (12F–96F) while maintaining cable roundness and stability.
- * Jelly-filled loose tubes protect fibers from moisture and maintain optical stability.
- * Central steel wire delivers high tensile strength for long-distance pulls.
- * Corrugated ECCS tape armour provides strong crush resistance and rodent protection.
- * Water-blocking compounds and full cable core filling ensure excellent longitudinal water resistance
- * Flexible and robust design suitable for duct, aerial (lashed), and direct-buried installation depending on site conditions
- * HDPE outer sheath ensures long-term environmental, UV, and abrasion resistance.

Optical Characteristics				
Type		ARM/MLT/SM	ARM/MLT/MM50	ARM/MLT/MM625
			50/125µm	62.5/125µm
Attenuation(+20°C)	@850nm		≤0.30ddB/km	≤0.30ddB/km
	@1300NM		≤1.0dB/km	≤1.0dB/km
	@1310NM	≤0.36dB/KM		
	@1550NM	≤0.22dB/KM		
Bandwidth(Class A)	@850NM		≥500MHz.km	≥200MHz.km
	@1300NM		≥1000MHz.km	≥600MHz.km
Numerical Aperture			0.200±0.015NA	0.275±0.015NA
Cable Cut-off Wave Length		≤1260NM		

Optical Characteristics								
Model	Fiber Count	Tubes	Fillers	Cable Odmm	Cable Weight kg/km	Tensile Strength Long Short Term	Crush Besistanre Long Short Term N/100mm	Bending Radius Static/Dynamic mm
MTUA/KR33	6-12	3	3	10	100±5%	1000	200N/CM	10D/20D
MTUA/KR42		4	2	10	100±5%	1000	200N/CM	10D/20D
MTUA/KR60		6	0	10	100±5%	1000	200N/CM	10D/20D
MTUA/KR60	24	6	0	10	100±5%	1000	200N/CM	10D/20D
MTUA/KR42		4	2	10	100±5%	1000	200N/CM	10D/20D
MTUA/KR44	48	4	4	10	100±5%	1000	200N/CM	10D/20D
MTUA/KR80		8	0	10	100±5%	1000	200N/CM	10D/20D
MTUA/KR80	96	8	0	12.5	165±5%	1000	200N/CM	10D/20D

Environmental Characteristics	
Storage Operating Temperature	-40°C-+70°C



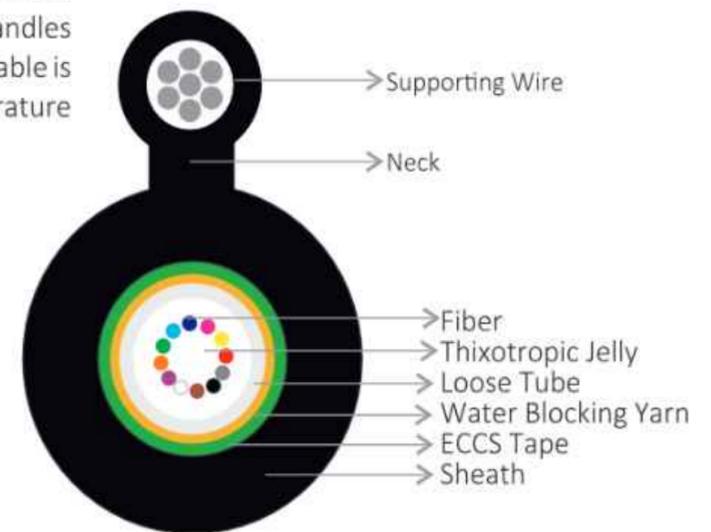
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FIGURE 8 OFC

The Figure-8 Unitube Armoured Optical Fiber Cable is designed as a self-supporting outdoor cable for aerial routes. All fibers are placed in a single loose tube filled with thixotropic jelly and water-blocking yarn to provide strong longitudinal moisture protection. A steel or stranded support wire runs parallel to the optical core, forming the characteristic Figure-8 profile. This support wire handles mechanical loads, reducing stress on the fiber core and enabling easier aerial installation. The cable is protected with a durable PE outer sheath, ensuring stability in varying weather and temperature conditions

Characteristics

- Unitube design with water-blocking yarn and jelly filling ensures high moisture resistance and long-term fiber protection.
- Integrated steel or stranded messenger wire provides strong tensile capacity for self-supporting aerial installations.
- High-modulus loose tube construction maintains fiber stability under mechanical load.
- Good crush resistance and mechanical strength suitable for clamps, spans, and pole mounting.
- Lightweight profile for smooth deployment and reduced installation cost.
- PE outer jacket delivers UV resistance, environmental durability, and long service life.



Optical Characteristics				
Type		FIG-8SM	FIG-8MM50	FIG-8MM625
			50/125 μ m	62.5/125 μ m
Attenuation(+20°C)	@850nm		≤ 0.30 ddB/km	≤ 0.30 ddB/km
	@1300NM		≤ 1.0 dB/km	≤ 1.0 dB/km
	@1310NM	≤ 0.36 dB/KM		
	@1550NM	≤ 0.22 dB/KM		
Bandwidth(Class A)	@850NM		≥ 500 MHz.km	≥ 200 MHz.km
	@1300NM		≥ 1000 MHz.km	≥ 600 MHz.km
Numerical Aperture			0.200 \pm 0.015NA	0.275 \pm 0.015NA
Cable Cut-off Wave Length		≤ 1260 NM		

Technical Parameters								
Model	Fiber Count	Cable Odmm	Cable Weight kg/km	Supporting Wire Spec	Connection Diameter	Tensile Strength Long Short Term	Crush Besistanre Long Short Term N/100mm	Bending Radius Static /Dynamic mm
FIG-8KR/SM	6-24	5.5x13	85 \pm 5%	Stranded wires or single strand	H x W 2.0x2.0mm	800/1200	300/1000	80/60
FIG-8KR/MM50	6-24	5.5x13	85 \pm 5%	Stranded wires or single strand	H x W 2.0x2.0mm	800/1200	300/1000	90/180
FIG-8KR/MM625	6-24	5.5x13	85 \pm 5%	Stranded wires or single strand	H x W 2.0x2.0mm	800/1200	300/1000	90/180

Environmental Characteristics	
Storage Operating Temperature	-40°C+70°C



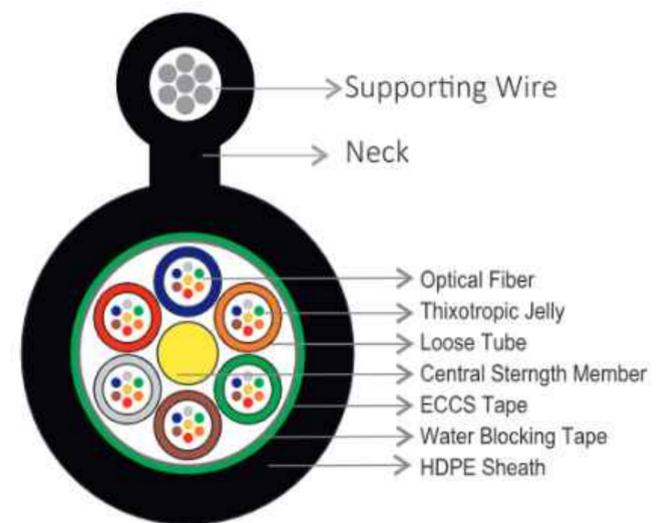
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FIGURE 8 MULTI TUBE OFC

The Figure-8 Multi-Tube Optical Fiber Cable is designed for aerial installations requiring a self-supporting structure and medium-range fiber capacities. The cable supports 6 to 48 cores, arranged across multiple loose tubes filled with thixotropic jelly for moisture protection and fiber stability. These tubes, along with fillers, are stranded around a central FRP rod that provides non-metallic tensile strength. A dedicated messenger wire—either single-strand or stranded steel—runs parallel to the optical core, forming the Figure-8 profile and carrying the mechanical load during aerial installation. A robust PE outer sheath ensures durability in outdoor and high-temperature environments.

Characteristics

- Multi-tube design supports 6F to 48F configurations with stable stranding and balanced cable geometry.
- Thixotropic jelly inside each loose tube ensures strong moisture resistance and protects fibers under mechanical stress.
- Integrated steel messenger wire provides high tensile strength for self-supporting aerial spans.
- Central FRP rod enhances structural stability while keeping the cable fully dielectric in the optical core.
- Water-blocking filling compound improves longitudinal protection and prevents water penetration.
- PE outer jacket offers UV resistance, weather durability, and long service life in outdoor routes.



Optical Characteristics				
Type		F-8/MLT/SM	F-8/MLT/MM50	F-8/MLT/MM625
			50/125 μ m	62.5/125 μ m
Attenuation(+20°C)	@850nm		≤ 0.30 dB/km	≤ 0.30 dB/km
	@1300NM		≤ 1.0 dB/km	≤ 1.0 dB/km
	@1310NM	≤ 0.36 dB/KM		
	@1550NM	≤ 0.22 dB/KM		
Bandwidth(Class A)	@850NM		≥ 500 MHz.km	≥ 200 MHz.km
	@1300NM		≥ 1000 MHz.km	≥ 600 MHz.km
Numerical Aperture			0.200 \pm 0.015NA	0.275 \pm 0.015NA
Cable Cut-off Wave Length		≤ 1260 NM		

Technical Parameters								
Model	Fiber Count	Cable Odmm	Cable Weight kg/km	Supporting Wire Spec	Connection Diameter	Tensile Strength Long Short Term	Crush Besistanre Long Short Term N/100mm	Bending Radius Static /Dynamic mm
F-8/MT/KR/SM	12-96	8.2x15	120 \pm 5%	Stranded wires or single strand	H x W 2.0x2.0mm	1000/2500	300/1000	80/160
F-8/MT/KR/MM50	12-96	8.2x15	120 \pm 5%	Stranded wires or single strand	H x W 2.0x2.0mm	1000/2500	300/1000	90/180
F-8/MT/KR/MM625	12-96	8.2x15	120 \pm 5%	Stranded wires or single strand	H x W 2.0x2.0mm	1000/2500	300/1000	90/180



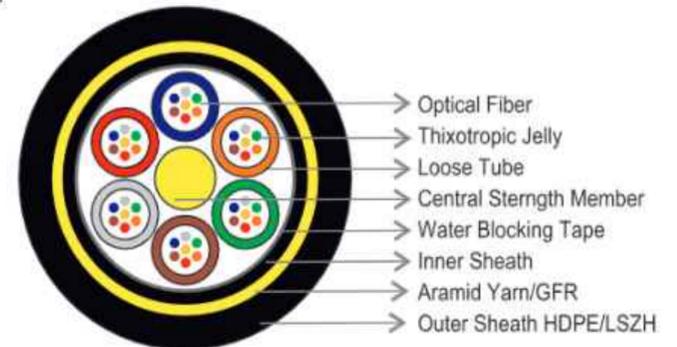
KRC OPTICAL PVT. LTD.

DOUBLE SHEATH LOOSE TUBE NON-METALLIC OFC

The Double Sheath Loose Tube Non-Metallic Optical Fiber Cable is designed for outdoor applications requiring enhanced environmental protection without the use of metallic components. Optical fibers are housed in multiple hydrolysis-resistant loose tubes filled with thixotropic jelly to ensure stable optical performance and moisture blocking. The tubes and fillers are stranded around a central FRP rod, which provides tensile strength while keeping the core fully dielectric. Aramid yarn is applied to further improve tensile load capacity. The cable features a dual-layer PE sheath—an inner sheath for structural integrity and an outer sheath for UV, abrasion, and weather resistance.

Characteristics

- Multi-tube non-metallic design provides excellent dielectric properties and immunity to electromagnetic interference.
- Double PE sheath improves environmental durability and long-term protection in outdoor installations.
- Hydrolysis-resistant loose tubes with jelly filling deliver strong fiber protection and moisture resistance.
- Central FRP rod ensures stable tensile performance while maintaining a lightweight structure.
- Aramid yarn reinforcement enhances pull strength for safe handling during installation.
- Flexible yet crush-resistant design supports deployment in ducts and outdoor routes.



Optical Characteristics					
Type		G.652	G.655		50/125μm
Attenuation(+20°C)	@850nm				≤0.30dB/km
	@1300NM				≤1.0dB/km
	@1310NM	≤0.36dB/KM	≤0.40dB/KM		
	@1550NM	<0.22dB/KM	<0.23dB/KM		
Bandwidth(Class A)	@850NM				≤200MHz-km
	@1300NM				≤600MHz-km
Numerical Aperture					0.275±0.015NA
Cable Cut-off Wave Length		≤1260nm	≤1480nm		

Optical Characteristics								
Model	Fiber Count	Tubes	Fillers	Cable Odmm	Cable Weight kg/km	Tensile Strength Long Short Term	Crush Besistanre Long Short Term N/100mm	Bending Radius Static/Dynamic mm
MTKR/DS/33	6-12	3	3	10.5	105	600/1500	300/1000	10D/20D
MTKR/DS/42	24	4	2	10.5	105	600/1500	300/1000	10D/20D
MTKR/DS/44	48	4	4	11.0	115	600/1500	300/1000	10D/20D
MTKR/DS/60	72	6	0	12.0	125	600/1500	300/1000	10D/20D
MTKR//DS/80	96	8	0	13.0	145	600/1500	300/1000	10D/20D

Environmental Characteristics	
Storage Operating Temperature	-40°C-+70°C



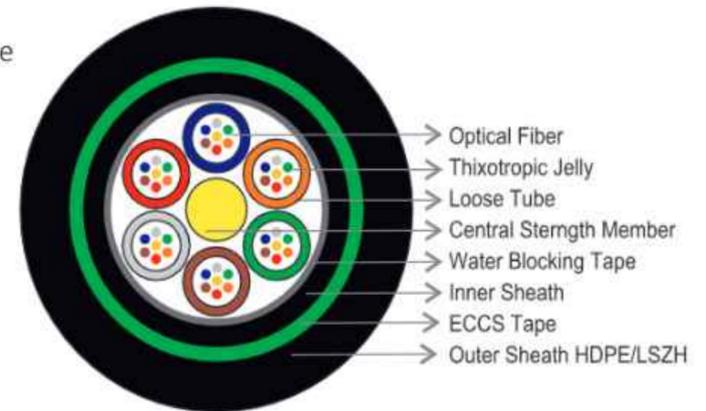
KRC OPTICAL PVT. LTD.

DOUBLE SHEATH LOOSE TUBE ARMoured FIBER CABLE

Engineered for underground and ducted routes, this cable provides high mechanical protection, rodent resistance, and long-term outdoor stability. PBTP loose tubes filled with jelly are SZ-stranded around an FRP central strength member for tensile balance. A flooding jelly layer with polyester wrap ensures continuous water blocking. Corrugated stainless-steel armour delivers strong crush and impact resistance without compromising flexibility. Dual HDPE sheaths enhance durability under soil pressure, UV exposure, and termite attack.

Characteristics

- Corrugated stainless-steel armour for crush, impact, and rodent protection.
- Dual HDPE sheath system for structural rigidity, UV resistance, and long-term outdoor durability.
- Hydrolysis-resistant jelly-filled loose tubes for stable attenuation and moisture blocking.
- FRP central strength member for uniform tensile control during long-distance pulls.
- Flooding jelly + polyester wrap for full longitudinal water blockage.
- Mechanical endurance: crush up to 4000 N/10 cm, impact 25 Nm, torsion $\pm 180^\circ$.
- Bend radius: 15xD (installation), 20xD (operation)
- Temperature range -20°C to $+70^\circ\text{C}$.
- Black UV- and termite-resistant outer sheath.
- Available in 2 km lengths with customizable marking.



Optical Characteristics					
Type		G.652	G.655		50/125 μm
Attenuation(+20°C)	@850nm				$\leq 0.30\text{dB/km}$
	@1300NM				$\leq 1.0\text{dB/km}$
	@1310NM	$\leq 0.36\text{dB/KM}$	$\leq 0.40\text{dB/KM}$		
	@1550NM	$< 0.22\text{dB/KM}$	$< 0.23\text{dB/KM}$		
Bandwidth(Class A)	@850NM				$\leq 200\text{MHz-km}$
	@1300NM				$\leq 600\text{MHz-km}$
Numerical Aperture					0.275 \pm 0.015NA
Cable Cut-off Wave Length		$\leq 1260\text{nm}$	$\leq 1480\text{nm}$		

Optical Characteristics								
Model	Fiber Count	Tubes	Fillers	Cable Odmm	Cable Weight kg/km	Tensile Strength Long Short Term	Crush Besistanre Long Short Term N/100mm	Bending Radius Static/Dynamic mm
MTKR/DS/33	6-12	3	3	14	180	600/1500	300/1000	10D/20D
MTKR/DS/42	24	4	2	14	180	600/1500	300/1000	10D/20D
MTKR/DS/44	48	4	4	14	180	600/1500	300/1000	10D/20D
MTKR/DS/60	72	6	0	16	240	600/1500	300/1000	10D/20D
MTKR/DS/80	96	8	0	16	240	600/1500	300/1000	10D/20D

Environmental Characteristics	
Storage Operating Temperature	-40°C - $+70^\circ\text{C}$



KRC OPTICAL PVT. LTD.

DATA CABLE

23AWG | 24AWG

CAT 6 Premium Data Cables are engineered 4-pair twisted-pair copper cables designed for high-speed structured cabling systems supporting frequencies up to 250 MHz. Built with 23 AWG or 24 AWG Oxygen-Free Copper (OFC) conductors—with CCA as an economical option—they deliver stable electrical performance, low insertion loss, and enhanced crosstalk control for Gigabit and short-distance 10 Gigabit Ethernet applications. All variants maintain precision pair geometry using HDPE insulation and comply with ANSI/TIA-568-C.2 and ISO/IEC 11801 performance requirements. Jackets are available in HDPE, PVC, FR-PVC, and LSZH to match indoor, outdoor, and safety-critical environments.

Electrical & Conductor

- Conductor Options:
 - 23 AWG Solid OFC (Premium)
 - 24 AWG Solid OFC (Standard)
 - Optional CCA for cost-sensitive applications
- Impedance: 100 ± 15 Ω
- Bandwidth: 250 MHz
- Supported Data Rates:
 - 1 Gbps (1000BASE-T) up to 100 m
 - 10 Gbps (10GBASE-T) up to 55 m (environment dependent)
- Insulation: High-Density Polyethylene (HDPE)

VARIANTS:

CAT 6 UTP

- U/UTP construction without shielding
- Precise twist-lay for NEXT/PSNEXT control
- Lightweight, flexible, and suitable for standard LAN

CAT 6 STP (Shielded Twisted Pair)

- Overall foil or braid shielding
- Enhanced protection against EMI/RFI
- Requires proper grounding
- Recommended for industrial or electrically noisy facilities

CAT 6 SF/UTP (Foiled + Shielded)

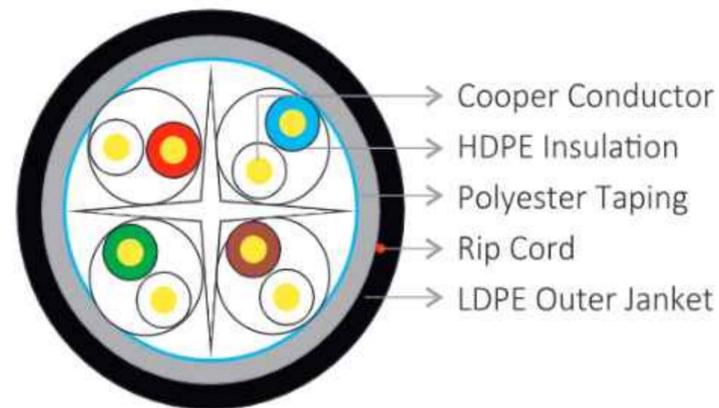
- Dual-shielded: aluminum foil + braided screen
- Maximum EMI and Alien Crosstalk immunity
- Suitable for secure networks, automation, defence, BFSI
- 4. CAT 6 ARMORED – GI WIRE
- F/UTP shielded core

CAT 6 ARMORED – ECCS TAPE/GI WIRE

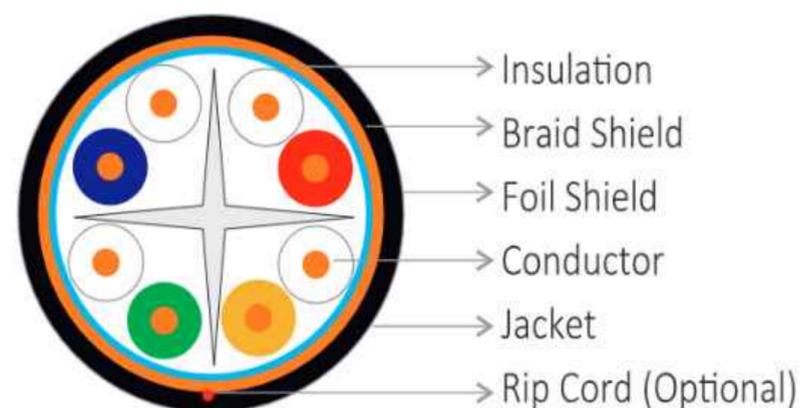
- Steel tape armor with copolymer bonding
- High crush resistance + moisture barrier
- GI wire armor for rodent and crush protection
- Suitable for outdoor conduits, industrial plants, camera networks
- Ideal for ducts, underground runs, harsh environments

Jacket Options

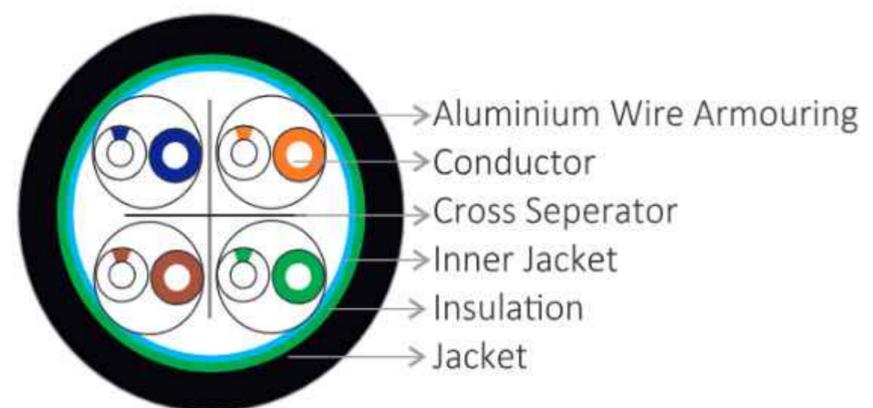
- PVC: Standard indoor use
- FR-PVC: Flame-retardant for commercial installations
- LSZH: Low smoke, halogen-free for confined/public spaces
- HDPE: Rugged, UV-resistant for outdoor or duct applications



- Cooper Conductor
- HDPE Insulation
- Polyester Taping
- Rip Cord
- LDPE Outer Janket



- Insulation
- Braid Shield
- Foil Shield
- Conductor
- Jacket
- Rip Cord (Optional)



- Aluminium Wire Armouring
- Conductor
- Cross Separator
- Inner Jacket
- Insulation
- Jacket



C³member	Transparent with Nylon centre
Pair 1	White/Blue
Pair 2	White/Orange
Pair 3	White/Green
Pair 4	White/Brown



KRC OPTICAL PVT. LTD.

CAT 5e 2 PAIR

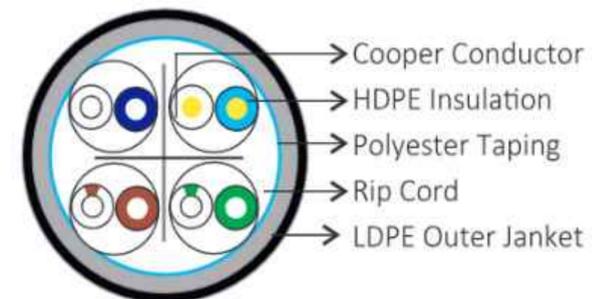
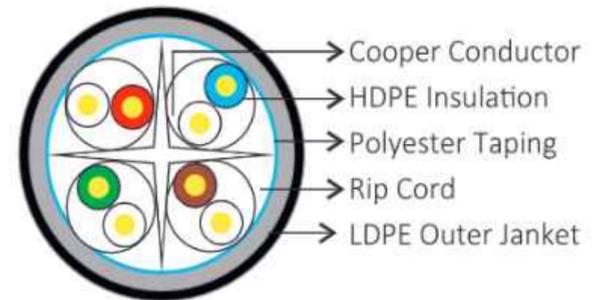
This cable range includes both 2 Pair and 4 Pair Unshielded Twisted Pair (UTP) configurations, engineered to meet Category 5e electrical performance up to 100 MHz. Each pair is precision-twisted to maintain pair balance, reduce crosstalk, and ensure stable signal transmission in voice, data, and low-bandwidth network applications. The conductors are manufactured using Oxygen-Free Copper (OFC) for optimal conductivity and long-term reliability. CCA conductors are available as cost-efficient alternatives for budget deployments. Standard conductor gauges include 23 AWG and 24 AWG, with optional diameter variants 0.36 mm, 0.38 mm, 0.41 mm, and 0.45 mm to support different installation and cost requirements. Jacket options include PVC, HDPE, and LSZH, allowing suitability across indoor networks, outdoor drop applications, and safety-critical environments

• Characteristics

- Cat 5e performance up to 100 MHz.
- Available in 2 Pair and 4 Pair UTP.
- OFC conductors; CCA options for budget use.
- Standard 23/24 AWG; optional 0.36/0.38/0.41/0.45 mm.
- Precision twisted pairs for reduced crosstalk.
- Jackets: PVC / HDPE / LSZH for indoor, outdoor, and safety-rated installs.
- Solid or stranded construction for structured cabling needs.

• Applications

- 2 Pair: voice lines, IoT devices, access control, low-power CCTV, telecom drop wiring.
- 4 Pair: LAN cabling, Ethernet up to 1 Gbps, Wi-Fi AP backhaul, PoE/PoE+ devices, office and home networking



Feature	Detail
Category Standard	Category 5e (Cate 5e)
Cable Type	Unshielded Twisted Pair (UTP)
Pairs/Conductors	2 Pairs (4 total conductors) 4 Pairs (8 total conductors)
Conductor Material	24AWG or 25 AWG Solid Bare Copper or CCA (Optional)
Maximum Bandwidth	100 MFz (Performance standard)
Supported Data Rate	10 Mbps/ 100 Mbps (Fast Ethernet-limited to 2-- pair standards)
Key Limitation	Cannot support Gigabit Ethernet (1000 BASE-T)
Insulation Material	High-Densit Polyethylene(HDPE)
Jacket Material	PVC (Indoor) or HDPE/LSZH (Outdoor)
Standards Compliance	Generally conforms to ANSI/TIA-568C.2 (Cat 5e electrical performance)
Impedance	100+-15 ohm

Jacket Options

- PVC: Standard indoor use
- FR-PVC: Flame-retardant for commercial installations
- LSZH: Low smoke, halogen-free for confined/public spaces
- HDPE: Rugged, UV-resistant for outdoor or duct applications



C ³ member	Transparent with Nylon centre
Pair 1	White/Blue
Pair 2	White/Orange
Pair 3	White/Green
Pair 4	White/Brown

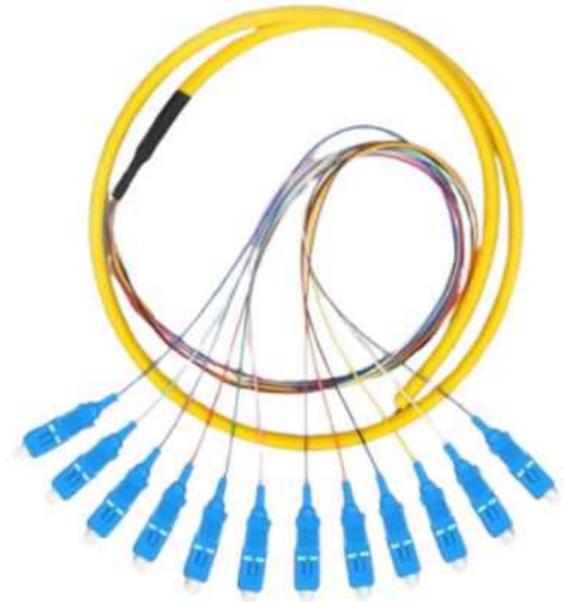


KRC OPTICAL PVT. LTD.

BREAK OUT FAN PATCH CORDS

The MPO Fan-Out Patch Cord is a high-density, pre-terminated optical fibre breakout cable designed to transition from a multi-fibre MPO/MTP connector to individual fibre connectors (such as LC, SC, FC). It is optimized for modern network environments requiring rapid deployment, high bandwidth, and efficient cable management. The solution provides compact trunk connection to active devices or patch panels and supports both single-mode (OS2 9/125 μm) and multi-mode (OM3/OM4 50/125 μm) fibre types.

Parameter	Unit	Value			
Connector Type		FC/UPC,FC/APC,SC/UPC,LC/UPC,LC/APC,ST/PC,MPO			
Fiber Type		Multi-Mode	Single Mode		
Insertion Loss	dB	Max.≤0.2	Max.≤0.3		
Return Loss(Typ.)	dB	≥36(no APC connector)	/PC	/UPC	/APC
Repeatability	dB	≤0.1	≥45	≥50	≥60
Interchangeability	dB	≤0.2			
Connection Durability	times	≥1000			
Operating/Storage Temperature	°C	-40+80			



CPRI ASSEMBLIES

CPRI (Common Public Radio Interface) Fiber Cable Assemblies are duplex fiber jumpers designed for FTTA applications, supporting reliable connectivity between RRUs and BBUs. Built for indoor/outdoor use with low-loss performance and robust mechanical protection.

Features

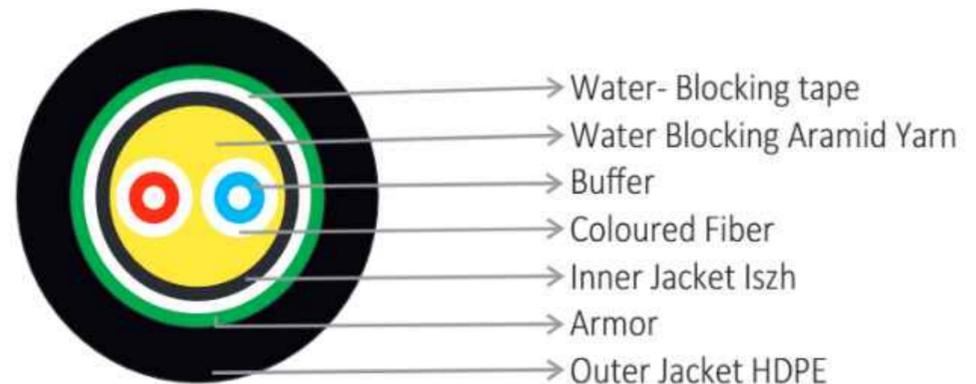
- Single-Mode and Multi-Mode options
- Low insertion loss, high return loss
- Custom lengths
- Factory-polished connectors
- Flexible fan-out tail
- IEC, EIA-TIA, Telcordia compliant
- RoHS, REACH, SvHC compliant
- Suitable for harsh outdoor FTTA deployments

Cable Characteristics

- Fiber Count: 2F (Duplex)
- Outer Diameter: 5.5 ± 0.3 mm
- Jacket: UV-LSZH, 0.60 ± 0.05 mm
- Subunit Diameter: 1.9 ± 0.1 mm
- Buffer Diameter: 0.85 ± 0.05 mm
- Strength Members: Aramid + Water Blocking Yarn
- Tensile Strength: Long 300N / Short 450N
- Crush Resistance: Long 300N/100mm / Short 1000N/100mm
- Min. Bend Radius: 10D static / 20D dynamic
- Installation Temp: -10°C to +50°C
- Operating Temp: -20°C to +60°C
- Storage Temp: -20°C to +70°C
- Weight: 25 kg/km

Connector Optical Performance

SM Standard: IL ≤ 0.30dB (Typ. 0.20dB), RL > 55/65dB
 SM Premium: IL ≤ 0.15dB (Typ. 0.12dB), RL > 55/65dB
 MM Standard: IL ≤ 0.30dB (Typ. 0.18dB), RL > 28dB
 MM Premium: IL ≤ 0.15dB (Typ. 0.08dB), RL > 28dB



Fiber	SM G657A2 9/125um according to ITU-T G.657
Fiber count	2
Cable Diameter	8.2(+0.1, -0.3)mm
Jacket material	HDPE, Black,UV resistance
Inner Jacket Diameter	3.8+0.2mm
Inner jacket material	LSZH Black
Tight buffer diameter	0.90+0.05mm
Strength member	Water-block aramid yam

Grounding kit	6mm-1.5,BV copper wire class2, Black
Nut	M8, Stainless steel
Bolt	M8x25, Stainless steel
Lug	Copper,Tined

Name	Description
Connector side A	uniboot LC/UPC Duplex,Single mode
Connector side B	LC/UPC Duplex,single Mode
Main cable	8.2mm armored cable, HDPE,Black
Branch cable	3.0mm, armored cable,LSZH,Black

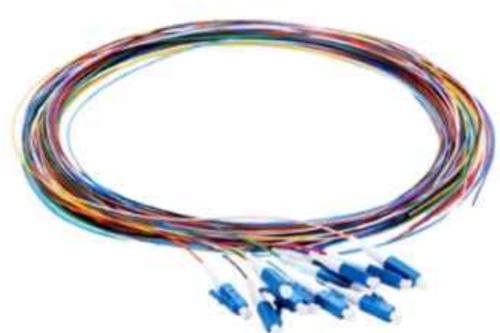


KRC OPTICAL PVT. LTD.

OPTICAL FIBER PATCH CORD

Available Fiber G 657A1, G657A2

These fibre assemblies are engineered for high-performance optical connectivity in telecom, broadband, enterprise and data-centre environments. The range includes single-mode patch cords (simplex & duplex), multimode patch cords (OM1/OM2/OM3/OM4/OM5 in simplex & duplex), single-mode and multimode fibre pigtails (individual and 12-colour sets), and MPO/MTP high-density patch cords (singlemode and multimode). Each product is manufactured under rigorous process controls, using precision-polished ferrules, controlled fibre geometries, and low-loss connectorisation. They conform to relevant international standards and are suitable for long-haul, short-reach, and ultra-high-density interconnect applications.



SINGLE MODE SIMPLEX

Features:

- These fibre assemblies are engineered for high-performance optical connectivity in telecom, broadband, enterprise and data-centre environments.
- The range includes single-mode patch cords (simplex & duplex), multimode patch cords (OM1/OM2/OM3/OM4/OM5 in simplex & duplex), single-mode and multimode fibre pigtails (individual and 12-colour sets), and MPO/MTP high-density patch cords (singlemode and multimode).
- Each product is manufactured under rigorous process controls, using precision-polished ferrules, controlled fibre geometries, and low-loss connectorisation. They conform to relevant international standards and are suitable for long-haul, short-reach, and ultra-high-density interconnect applications.

SINGLE MODE DUPLEX

Features:

- Core sizes and modal bandwidth optimised per OM grade (e.g., OM3/OM4 for 10G/40G/100G).
- Fibre types: OM1 (62.5/125 μ m), OM2/OM3/OM4/OM5 (50/125 μ m).
- Connectors: SC, LC, FC, ST available; simplex and duplex.
- Jacket options: PVC, LSZH, OFNR, OFNP.
- Duplex zip-cord design for easy pair management.
- Colour-coded jackets available for simple identification.
- OM5 supports SWDM (Short-wave division multiplexing) for next-gen networks.

SINGLE / MULTI MODE PIGTAILS (0.9MM)

Features:

- Pre-terminated pigtails for splicing/ODF termination.
- Connector types: SC, LC, FC, ST; single-mode or multimode.
- Single-mode: G.652D / G.657A2; Multimode: OM1–OM5.
- 900 μ m tight buffer construction.
- Colour-coded 12-fibre sets in multimode to match standard panel wiring.
- Low-loss splicing compatibility (typical splice loss \leq 0.10 dB).
- Jacket options: PVC, LSZH.

Connector	SC, LC, FC, ST		UPC (SM)		APC (SM)		UPC (MM)	
Insertion Loss(db)	\leq 0.2		\geq 50		\geq 60		\geq 35	
Return Loss(db)	3.0mm		1000matings, <0.3		linterchangeability (db)		<0.2	
Cable Diameter	-40+85		Operating temperature (°C)		Cable Diameter (mm)		Fiber Diameter (mm)	
Durability(db)	Cable Weight (gm/m) approx		Tensile Strength (N)		Crush Strength (N)		Min. Bending Radius	
linterchangeability (db)	Tensile Strength (N)		Crush Strength (N)		Min. Bending Radius		Temperature Range (OC)	
Operating temperature (°C)	Long Term		Short Term		Long Term		Short Term	
Cable Diameter (mm)	200		400		1000		3000	
Fiber Diameter (mm)	100		200		100		200	
Cable Weight (gm/m) approx	11.0		-20+60					



KRC OPTICAL PVT. LTD.

DOUBLE DOOR WALL MOUNT

The Double Door Wall Mount LIU is a compact, secure, and high-strength fiber distribution enclosure designed for structured FTTH, FTTX, and enterprise network deployments. Built using cold-rolled steel with an anti-corrosion powder-coated finish, the unit provides clean fiber routing, splice management, and adaptor mounting in a dual-door architecture that separates operational and maintenance zones. Its heavy-duty lock mechanism ensures controlled access in critical network environments

Technical Features

- Anti-corrosive powder-coated finish (60–80 microns) ensures long-term durability in indoor and semi-industrial environments.
- Manufactured from CRCA steel with protective surface treatment, preventing oxidation and extending service life in varied humidity conditions
- Equipped with a robust lock mechanism to secure fiber terminations, restrict unauthorized access, and protect network integrity.
- Front Distribution Section: For adaptor plates, patching, and easy front access.
- Rear Splice Section: Dedicated splice tray area that keeps joints isolated from patching activity, ensuring clean fiber management and reduced handling risk.
- Provision for multiple cable entry/exit ports, maintaining proper bend radius and strain relief
- Supports SC/LC Simplex and Duplex configurations (up to 48F Simplex or 96F Duplex).



LIU/FMS

Product name	Double Door Wall Mount	Connector	SC/LC/FC/ST/Euro
Product Model	KRC/DD/WM/XX	Dimensions	390*85*430mm
Ports	Up to 96 ports (LC Duplex)	Product Height	430mm
Max Capacity	96 Ports(LC Duplex)	Material	Cold Rolled Steel
Installation Type	Wall Mounted	G. weight	Up to 5kg
12 Fibers Splice Tray	up to 8	Standard color	Siemens Grey
Work Temperature	-20- + 60°C	Storage Temperature	-20-+60°C
Atmospheric pressure	70KPa~106KPa	packing Size	1x5 Pcs

DIN RAIL LIU

The DIN-Rail LIU – 12 Port Duplex is a compact fibre termination and distribution module engineered for installations where rack space is not available and control-panel integration is required. Designed for direct 35 mm DIN-rail mounting, the unit provides a secure and organised interface for managing up to 12 duplex fibre ports (24 fibre positions), making it suitable for industrial networks, automation cabinets, FTTH nodes, power substations, and compact telecom enclosures. The enclosure is built from high-strength powder-coated metal to withstand vibration, temperature variations, and cabinet-level environmental exposure. Internal fibre routing is carefully structured with guided paths, bend-radius protection, and a built-in splice tray area to support fusion or mechanical splicing. The modular adapter plate design supports SC/LC/FC/ST connectors, enabling flexible configuration across single-mode or multimode systems.

Technical Features

- DIN-Rail Ready Design Fits standard 35 mm DIN rails using a secure clip mechanism for rapid panel integration.
- 12 Duplex Ports (24 Fibre Positions) Optimised for duplex terminations while maintaining a compact footprint.
- Industrial-Grade Metal Enclosure Manufactured using cold-rolled steel/aluminium with a durable powder-coated finish for corrosion protection.
- Integrated Splice Area Accommodates a 12-Fibre splice tray with organised routing for patch-and-splice configurations.
- Multi-Adapter Compatibility Supports SC, LC, FC, and ST Euro-type adapters in simplex or duplex style.



Product name	DIN RAIL LIU	Connector	SC/LC
Product Model	KRC/DIN/RL/XX	Dimensions	260*182*54mm
Ports	Up to 24 ports (LC Duplex)	Product Height	54mm
Max Capacity	24 Ports(LC Duplex)	Material	Cold Rolled Steel
Installation Type	DIN RAIL	G. weight	Up to 1.5kg
12 Fibers Splice Tray	up to 2	Standard color	Siemens Grey
Work Temperature	-20- + 60°C	Storage Temperature	-20-+60°C
Atmospheric pressure	70KPa~106KPa	packing Size	1x5 Pcs



KRC OPTICAL PVT. LTD.

SLIDING RACK MOUNT

A high-density Sliding Rack Mount LIU engineered for 19-inch rack installations, designed to provide efficient fiber termination, splicing, and patching within a controlled, service-friendly enclosure. The sliding tray mechanism enables full front accessibility without removing the LIU from the rack, ensuring fast maintenance, structured routing, and secure fiber protection

- Constructed from 1.2 mm cold-rolled steel and finished with electrostatic powder coating, the unit offers strong mechanical stability, corrosion resistance, and extended operational life in telecom, data center, and broadband environments.
- Compatible with SC/LC/FC/ST adapter types, the LIU supports 48 to 288 ports (LC/SC Duplex), depending on configuration. The design integrates rear cable-entry grommets, splice trays, bend-radius guides, and secure cord management to maintain optical performance and long-term reliability.
- The solution aligns with structured cabling practices, enabling organized fiber distribution, low-loss splicing, and compliant patch cord management for OSP/ISP, FTTx, backbone, and enterprise networks



LIU/FMS

Product name	Sliding Rack Mount	Connector	SC/LC/FC/ST/Euro
Product Model	KRC/SLD/RM/XX	Dimensions	370*178*482.2mm
Ports	Up to 288 ports (LC Duplex)	Product Height	4U
Max Capacity	288 Ports(LC Duplex)	Material	Cold Rolled Steel
Installation Type	Rack Mounted	G. weight	Up to 6kg
12 Fibers Splice Tray	up to 12	Standard color	Siemens Grey
Work Temperature	-20- + 60°C	Storage Temperature	-20-+60°C
Atmospheric pressure	70KPa~106KPa	packing Size	1x5 Pcs

FIXED RACK MOUNT

- The Rack Mount Fixed LIU is a robust, high-performance Fiber Management System engineered for structured fiber termination, splicing, and distribution in 19-inch rack environments. Designed for telecom, broadband, data centers, and enterprise networks, this LIU provides a stable, non-sliding chassis that ensures long-term reliability, alignment accuracy, and secure fiber management
- 19" Rack Compatible Fixed Enclosure Rigid, non-sliding structure ensuring maximum stability during fiber termination and patching.
- Manufactured using cold-rolled steel with a corrosion-resistant powder-coated finish, the unit ensures strong mechanical durability and protection in both controlled and semi-industrial environments. The fixed design improves structural rigidity and prevents tray misalignment during intensive patching or high-density fiber routing.
- The LIU supports SC/LC/FC/ST (Euro) adapters in simplex or duplex configuration and is available in multiple capacities: 12 Port, 24 Port, and 48 Port options for both Single Mode (SX) and Multimode (MM). Each model is supplied with integrated splice tray capacity, clear routing paths, grommet-based cable entry, and provisions for 12F splice trays
- Rear Cable Entry With Grommets Secure cable entry to protect sheaths, enable strain relief, and manage armored/unarmored cables.
- Telecom-Grade Finish Smooth Siemens Grey powder coating for durability, dust control, and long service life



Product name	Fixed Rack Mount	Connector	SC/LC/FC/ST/Euro
Product Model	KRC/FX/RM/XX	Dimensions	300*88.8*482.2mm
Ports	Up to 96 ports (LC Duplex)	Product Height	2U
Max Capacity	96 Ports(LC Duplex)	Material	Cold Rolled Steel
Installation Type	Rack Mounted	G. weight	Up to 6kg
12 Fibers Splice Tray	up to 8	Standard color	Siemens Grey / Black
Work Temperature	-20- + 60°C	Storage Temperature	-20-+60°C
Atmospheric pressure	70KPa~106KPa	packing Size	1x5 Pcs



KRC OPTICAL PVT. LTD.

Fd BOX FIBER DISTRIBUTION BOXES

8 PORT ECO SERIES



- UP TO 8 PORTS WITH PLC CASSETTE
- HIGH QUALITY PC, ABS, CAN SUSTAIN HARSH CONDITIONS.
- IP RATED FOR BETTER PROTECTION AGAINST DUST AND WATER

16 PORT STERDERD



it comes with provision of making a loop of trunk cable without cutting, and also not required to pull the entire stretch of the trunk cable

- UP TO 16 PORTS WITH PLC CASSETTE
- HIGH QUALITY PC, ABS, CAN SUSTAIN HARSH CONDITIONS.
- IP RATED FOR BETTER PROTECTION AGAINST DUST AND WATER

16 PORT LOOP THRU



- UP TO 16 PORTS WITH PLC CASSETTE
- HIGH QUALITY PC, ABS, CAN SUSTAIN HARSH CONDITIONS.
- IP RATED FOR BETTER PROTECTION AGAINST DUST AND WATER

32 PORT PRO SERIES



- UP TO 48 PORTS WITH PLC CASSETTE
- HIGH QUALITY PC, ABS, CAN SUSTAIN HARSH CONDITIONS.
- IP RATED FOR BETTER PROTECTION AGAINST DUST AND WATER

96 PORT DX PRIMIUM SERIES



- UP TO 96 PORTS WITH PLC CASSETTE
- HIGH QUALITY PC, ABS, CAN SUSTAIN HARSH CONDITIONS.
- IP RATED FOR BETTER PROTECTION AGAINST DUST AND WATER

TRIPLE WINDOW COUPLER



- Low Insertion Loss And Low Pdl
- Uniform Power Splitting
- High Reliability
- Excellent Environmental Stability
- Ration Available : 50:50, 55:45, 60:40, 65:35, 70:30, 75:25, 80:20,85:15, 90:10, 95:05, 98:02, 99:01

PLC CASSETTE SPLITTERS

- Low insertion loss and low PDL
- Uniform Power Splitting
- high reliability
- excellent environmental stability



PLC SPLITTER WITHOUT CONNECTOR

- Low Insertion Loss And Low Pdl
- Uniform Power Splitting
- High Reliability
- Excellent Environmental Stability



AVAILABLE OPTION :1:2, 1:4, 1:8, 1:16, 1:32, 1:64, 2:2, 2:4, 2:8, 2:32

Parameters	1x2	1x4	1x8	1x16	1x32
Operating Wavelength	1260~1650nm				
Insertion Loss (db)(p/s Grade)	3.6/4.0	7.2/7.4	10.2/0.5	13.5/13.7	16.2/16.7
Uniformity (db)	0.4	0.6	0.8	1	1.2
Pdl (db)	0.2	0.2	0.3	0.3	0.3
Return Loss (db)	≥55				
Directivity (db)	≥55				
Tdl (db)	0.5				
Operating/storage Temperature (°c)	-40~85				



KRC OPTICAL PVT. LTD.

OPTICAL ACCESSORIES

Use FTTH, FITA, FTTC, FTTX | High quality PC,ABS, can sustain harsh conditions. | Well water and dust proof, to ensure the sealing performance.

24 PORT

Bamboo Small

Number of fiber : 24 Fiber
Splice Tray : 2
Inlet/ Outlet Port : 4Port
Dimension : L-340mm, 0-135mm
Weight : 969 gm.



24 PORT

Bamboo Big

Number of fiber : 24 Fiber
Splice Tray : 2
Inlet/ Outlet Port : 3+1 Oval
Dimension : L-520mm,
Weight : 2 kg



48 PORT

Bamboo Big

Number of fiber : 48 Fiber
Splice Tray : 4
Inlet/ Outlet Port : 3+1 Oval
Dimension : L-520mm, 0-135mm
Weight : 2.2 kg.



24 PORT

Bamboo Small

Number of fiber : 24 Fiber
Splice Tray : 2
Inlet/ Outlet Port : 3+1 oval
Dimension : L-350mm, Ø-13
Weight : 921 gm.



24/48 PORT

Bamboo Professional

Number of fiber : 48 Fiber
Splice Tray : 4
Inlet/ Outlet Port : 3+1 Oval
Dimension : L-550mm, /Ø-170mm
Weight : 2.4 kg.



96 PORT

Bamboo Pro. Big

Number of fiber : 96 Fiber
Splice Tray : 8
Inlet/ Outlet Port : 3+1 oval
Dimension : L-550mm, Ø-170mm
Weight : 2.6kg.



FTTH TERMINAL BOX

Support termination, splicing and storage functions for fiber optic cable systems. Simple design and enough work space to arrange clearly for cable management. Engineered fiber routing protect bend radius through the unit to ensure single integrity. Fiber optic distribution box is wall-mounted and suitable for FTTH hard cable.



FACE PLATE

FTTH mini fiber optic faceplate employ compact plug-in design, combine a modern design concept, small size, light weight, use conveniently fireproof and dust-proof, it can accommodate fiber splices intact & protect them from any external element.



JC BOX 2 WAY Regular

Joint Box For 2-12 Fiber_
2 Inlet/outlet For Fiber Upto 8mm Diameter
Built-in Sleeve Tray
Mesh Like Structure For Better Durability
Fiber Optic Splice Closure Horizontal Type



JC BOX 2 WAY Deluxe

Joint Box For 2-12 Fiber
2 Inlet/outlet For Fiber Upto 8n
Built In Sleeve Tray
Fiber Optic Splice Closure Horizon'



JC BOX 4 WAY Deluxe

Joint Box For 2-12 Fiber_
2 Inlet/outlet For Fiber Upto 8mm Diame
Built-in Sleeve Tray
Fiber Optic Splice Closure Horizontal Type
Brass Screws : 6



JC BOX 2 WAY Tiffin type

Low cost mini joint box for 2-12 fib
2 inlet/outlet for fiber upto 8mm diameter
built in sleeve tray





KRC OPTICAL PVT. LTD.

HOUSE WIRES

KRC Cables brings you the finest wires for your homes. Our House wires are made with latest technology and match all the safety standards.

Application

- Homes
- Hotels
- Kitchen
- Bathroom

Product specification -

- 100V Multi strand Flexible,
- PVC Cables as per IS: 694
- Sizes : Single Core 1.0 to 630 sq mm

Options

- Conductor - Bright Annealed Copper
- Insulation - PVC / HR PVC / FR / FRLS PVC/ Zero Halogen

Product features

- ZHFR (Zero Halogen Flame Retardant) Insulation.
- Thermal properties enable the cable to hold up in case of overload
- Its insulation is resistant to steam, vapor and boiling water
- Avoids cracking & ageing
- Suitable for seepage prone areas.



Components

- Conductor - The conductor of the house wire is made of electrolytic grade bare copper conductor as per IS - 8130:1984, which has high conductive copper, the copper conductor passes more current and lowers the electricity bill.
- Insulator - Insulator is the part of the cable which covers the conductor so that current won't come out and create any electric fault. Insulators can be a wire (color) or any insulated material. The insulating material PVC (Polyvinyl Chloride) Type A (IS-5831:1984) in twin layer which provides high thermal stability and tensile strength, thereby increase the life of wires

SUBMERSIBLE

Submersible wires are ideal for underground and underwater use. These wires are safe, durable, flexible and can work in wet conditions. Thus, why these wires are extensively used in manufacture of pump.

Application

Submersible flat cables are used in winding / rewinding submersible pump motors. These are also used in HP Pump motors for application in dewatering, naval pumps, and mining.

Product specification

- 1.1 kv stranded Plain Copper
- PVC Insulated & PVC sheathed as per IS: 694
- Sizes :3 core – 1.5 to 35 sq. mm

Options -

- Conductor - Copper,
- Insulation - PVC /HR PVC
- Sheath - PVC / HR PVC

Product features

- Higher Life: wires have excellent, electrical, mechanical, thermal & chemical properties. These wires withstand abrasion, frictional losses and work in every type of typical conditions.
- High Tensile Strength: The insulation adds significantly to the tensile strength as it supports the wire at each point where excessive stretching occurs.
- Easy Winding: The winding resistance is less and the motor is easy to wind.
- Withstands 130°C Temperature: For short period 130°C & continuous -60°C to 105°C.

Components

- Conductor- The conductor is the material which carries current. It can be of different materials (Aluminium/Copper). In the cable industry, it is preferred to use copper and aluminium conductors for these cables. We manufacture Submersible flat cable with copper conductor. The copper conductor can provide flexibility too.
- Insulator- An Insulator is the part of the cable which covers the conductor so that current won't come out and create any electric fault. These wires are protected with tough grade PVC insulation with colours red, blue and yellow.
- Sheath- The sheath is the protection cover of cable, which protects cables from external forces, oil, water and mechanical forces. Keeping in view this major part, we have built our flat submersible cable with PVC (Polyvinyl Chloride) sheath. PVC can also stand against the excessive heating condition.





KRC OPTICAL PVT. LTD.

FLEXIBLE CABLES

Flexible Multicore cable are designed to work inside cable carriers against physical stress and tight bending area which is directly associated with application in moving state. The service life of these cables is long because of the higher level of flexibility. The difference is visible as a normal cable manages 50,000 cycles only whereas, the dynamic cable can complete between one and three million cycles. We offer a complete range of insulated Single / Multicore flexible cable as per standard of IS 694:1990. And for export market BS 6004 and BS 6500.

Application

Machine tools, control panels, various electrical installations in small machines and any type of electrical Industry products

Product specifications

Type:1100 V PVC insulated and Sheathed as per IS : 694 / BS Sizes :Two, Three or Four Core up to 24 cores.

Options-

- conductor – Multi Stranded Plain / Tinned
- Insulation – PVC /XLPE / HR PVC / FR /FRLS/ Zero Halogen
- Sheathed– PVC /HR PVC/FR/ FRLS/Zero Halogen

Product features -

- Highly Flexible in nature due to maximum use of copper wire strands.
- These cables are ideal for easy installation for portable or movable equipment.
- PolyUrethane (PUR) jackets offer protection against water/oil.

Components of wire -

- Conductor- The conductor is the material which carries current. It can be of different materials (Aluminium/Copper).The conductors are of electrolytic grade annealed copper. The conductor in the flexible multicore cable is basically multi - stranded and PVC insulated which provides high insulation resistance and dielectric strength.
- Insulator- An insulator is the part of the cable which covers the conductor so that current won't come out and create any electric fault. Insulators can be a wire (color) or any insulated material. In flexible cable insulation material is PVC (Polyvinyl chloride), XLPE (Cross-Linked Polyethylene).
- Sheath -Inner Sheath and an outer sheath of flexible multicore cables are made of PVC (Polyvinyl Chloride). The main work of sheath is to protect the cables from mechanical, climatic, electrical and chemical.



LT POWER CABLES

An assembly of one or more electrical conductors held together with an overall sheath is known as LT power cables. This assembly is used for electrical power transmission and distribution purpose. KRC Cable supplies the finest PVC & PE cables in India. Cross-linked polyethylene (XLPE) is known to be as a thermosetting compound. It softens at the crystal melting point of polyethylene (85°C to 115°C) and becomes elastic rubber-like consistency, and retains this property until the temperature rise to 250°C to 300°C. These cables are designed and manufactured as per current, voltage, operating maximum temperature and purpose of applications desired by a custom.

Application

LT power cable may be installed as permanent wiring within buildings, run overhead, buried in the ground or exposed. And Flexible power cables are used in mobile tools, portable devices, and machinery.

Product specification

Type -1.1 kV PVC /XLPE as per IS : 1554 – (Part-I) / IS : 7098(Part- I)/BS /IEC, Sizes : Single Core 1.5 to 1000 sq. mm Multi core 1.5 to 630 sq. mm

Options

Conductor Stranded / Solid / Circular shaped-Aluminium / Copper Insulation – PVC /XLPE/HR PVC /Zero Halogen Inner sheath – PVC/HR PVC /FR/FRLS PVC Armouring – G. S.Round Wire/ Flat Strip or Aluminium Wire /Flat Strip Outer sheath -PVC /HR PVC/FR/FRLS PVC /Zero Halogen

Components of wire -

- Conductor- The conductor is the material which carries current. It can be of different materials (Aluminium/Copper).In the cable industry, it is preferred to use copper and aluminium conductors for these cables. We manufacture Submersible flat cable with copper conductor. The copper conductor can provide flexibility too.
- Insulator- An Insulator is the part of the cable which covers the conductor so that current won't come out and create any electric fault. These wires are protected with tough grade PVC insulation with colours red, blue and yellow.
- Sheath- The sheath is the protection cover of cable, which protects cables from external forces, oil, water and mechanical forces. Keeping in view this major part, we have built our flat submersible cable with PVC (Polyvinyl Chloride) sheath. PVC can also stand against the excessive heating condition.





KRC OPTICAL PVT. LTD.

INSTRUMENTATION CABLE / CONTROL CABLE

Multi-Core Copper Control Cable for transmission of current operation of objects being controlled. When direct access to an object is not possible than Copper Control cable came to access. Copper Control cables, having a position in between power cables and communication cables belongs to the family of instrumentation cables. They are widely used to distribute low voltage data / signal. Control cables are designed for automation controls and have a copper conductor and enveloped in galvanized steel braid. These cables can carry signals up to 40 volts in the regions that require less than 1 Ampere.

Application

Copper Control cables are Suitable for cable trays, Conduits, Underground, Overhead, cable trays and all electrical installation industrial control circuits for sending electrical signals.

Product specification-

- Type 650/1100 V PVC/XLPE as per IS 1554-(Part-I) & IS: 7098 (Part- I)/BS/IEC
- Sizes: 1.5/ 2.5 sq. mm up to 100 cores 4 & 6 sq. mm up to 4 cores

Options

Conductor-Solid/Stranded/Plain/Tinned Insulation - PVC/HR PVC/XLPE/Zero Halogen Innersheath - PVC/HR PVC /FR/FRLS/Zero Halogen Armouring-G. S.Round Wire/Flat Strip Outersheath-PVC/HR PVC/FR/FRLS/Zero Halogen

Components of wire -

- Conductor - Conductor usually conducts the flow of electricity or signals within cables. Conductors can be of Silver /Aluminum/Copper. The cost of the cable also varies as the type of conductors changes. In copper control cable the conductor is of Copper. You can see the difference of Copper and Aluminium conductor.
- Insulator- An insulator is the part of the cable which covers the conductor so that current won't come out and create any electric fault. Insulators can be a wire (colour) or any insulated material. These cables usually bear a PVC/XLPE insulation that protects them from impacts and harsh climatic conditions.
- Sheath - The sheath is an outer cover, which protects the wire from external damage. If in case, current passes from insulated material, Sheath is responsible for controlling the current in that case.



FIRE SURVIVAL CABLE

KRC Optical bring you the premium quality Fire Survival Cables. The offered cables are fireproof as these are insulated with PVC / TPE / LSZH materials, which maintain circuit integrity even during extreme temperature. Modern manufacturing techniques are adopted in our huge infrastructure facility to manufacture these cables. These Fire Survival Cables are carefully tested as per IEC-60331standards to meet the industry laid parameters.

Application

Due to highly flame retardant nature, fire survival cable has application in public areas mostly such hospitals, metro terminals, underground projects, airports, schools etc.

Product specification

Power Cables 1.1 kV as per BS : 7846 / BS : 6387 Sizes : S/Cx 16 to 1000 Sq, mm Multi Core 16 to 400 Sq. mm
Control Cables Sizes : 1.5 /2.5 sq mm up to 61 cores 4 & 6 sq. mm up to 4 cores.

Options-

Conductor Copper/Aluminium Screening-Mica Tape Insulation-XLPE/ZHFR Inner Sheath-ZHFR Armouring-Wire/Strip Screening - Glass Tape Outer Sheath - ZHFR

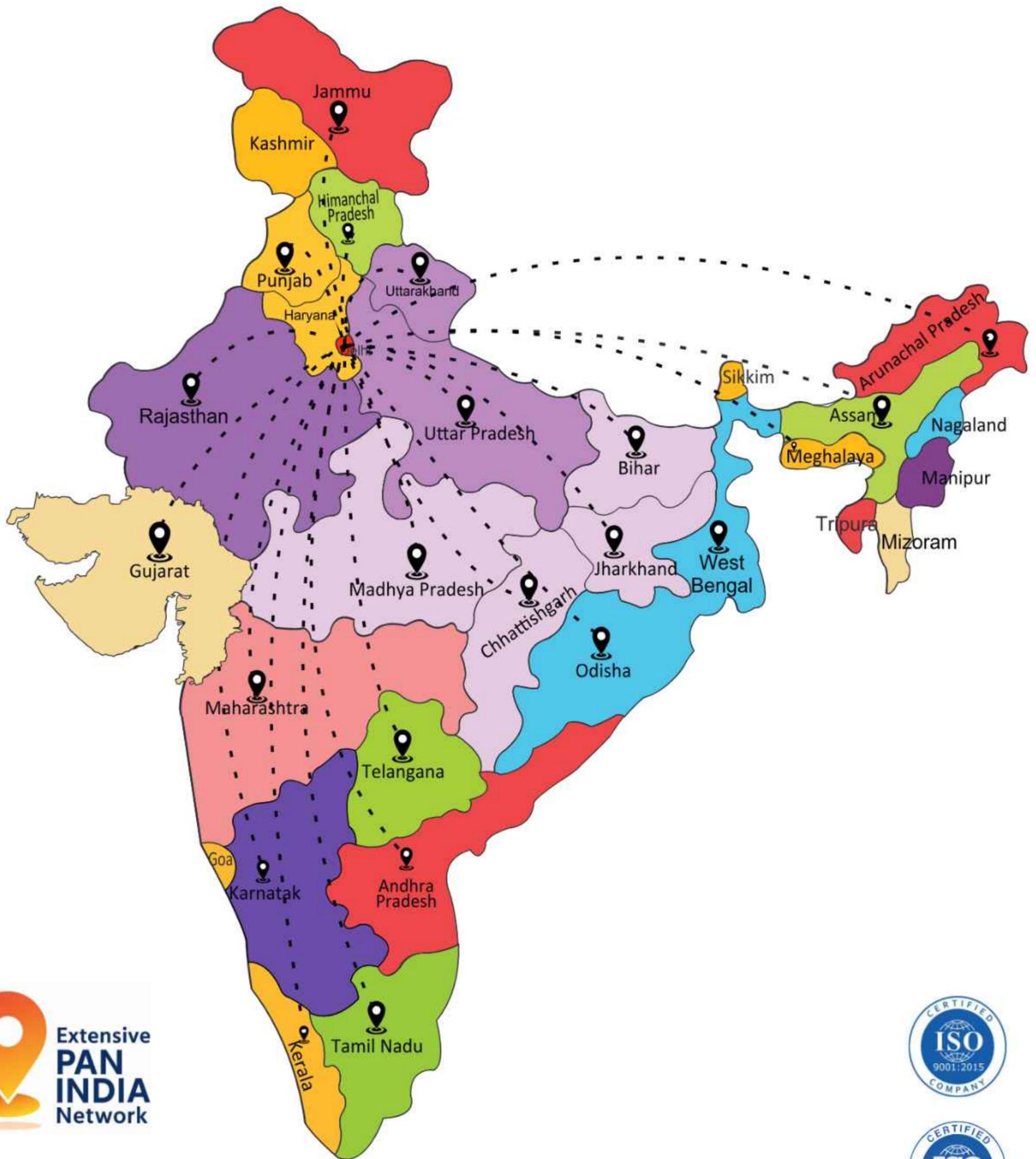
Components of wire -

- Conductor - Conductor usually conducts flow of electricity or signals within cables. Conductors can be of Aluminium /Copper. Our range of fire survival cables is made using copper/aluminium conductors.
- Insulator - An insulator is the part of the cable which covers the conductor so that current won't come out and create any electric fault. Insulators can be a wire (color) or any insulated material. In fire survival cables, insulated material is made of XLPE (Cross-linked Polyethylene).XLPE is more powerful than normal insulation. It possesses the ability to stand for long period of time against fire. At the time of high heat, it produces white smog, so that people can get aware.
- Sheath- The sheath is an outer cover, which protects the wire from external damage. In fire survival cables, the sheath is of ZHFR (Zero halogen flame retardant). It also protects the conductor and insulator in the cable from excessive heat.





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GeM
Government
e Marketplace



**NABL LAB TESTED
OPTICAL FIBER CABLE**





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NOTE



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**OPTICAL FIBER CABLE
FDB/FAT BOX**

**FIBER OPTIC PATCH CORD
LIU / FMS**

**CAT 6 NETWORKING CABLE
PLC CASSETTE SPLITTER**

**POWER CABLES
JOINT ENCLOSURE / JC BOX**



KRC OPTICAL PVT. LTD.

NOTE



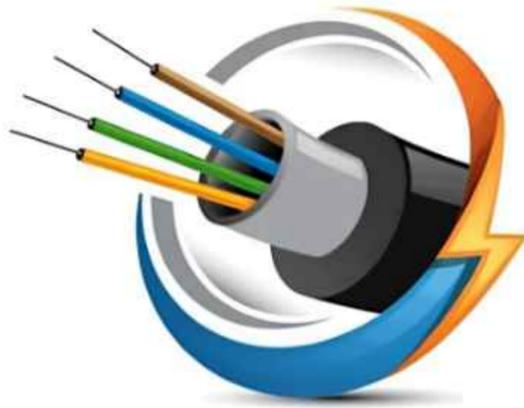
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**POWER CABLES
JOINT ENCLOSURE / JC BOX**



KRC OPTICAL PVT. LTD.

"Engineered for Infinite Connectivity"

An ISO 9001:2015 Certified Company

Unit-I : MUNDKA

Khasra No. 86/24, Mundka Indl. Area, New Delhi-110041 India



Unit-II BHIWADI

F-29, Khehrani Indl. Area, Bhiwadi, Alwar - 301019 (Rajasthan) India



Premium Telecom-Grade Optical Fibre
Manufacturer | NABL Lab Tested

