

THE FUTURE OF CONNECTIVITY

OPTICAL FIBRE CABLES PRODUCT CATALOGUE



APAR EMPOWERING A SMARTER WORLD SINCE 1958





Manufacturing Units



#1 Largest global aluminium & alloy conductor manufacturer



#3 Largest global manufacturer of Transformer oils



#1 Largest manufacturer of Renewable & Speciality Cables in India



Manufacturer of OFC & Hybrid Cables

65 YEARS of Manufacturing Experience

\$ 1.8 BILLION FY23 Consolidated Revenue **19.3%** CAGR Last 5 years

49% EXPORT REVENUES



TELECOM SOLUTIONS OVERVIEW

APAR is a leading Global Telecom Solutions company focusing on innovative solutions for global markets. The uniqueness lies in its design and manufacturing capabilities supported by backward integration. The wide range of tele-communication Optical Fibre Cable and Hybrid Cable products have been carved out from its rich experience across Telecom, Defense, Power and Transport industries over the years. APAR Telecom services has capability and potential to create digital networks, passive infrastructure gateways and network densification for Urban (Mobility Networks and FTTx, broadband Networks), Rural (Middle Mile and Last mile connectivity), Defense MHA (Border & Cantonment Fortification) and Enterprise Connectivity (across multiple Industries).

APAR's Telecom Solutions is driven by Innovation, customer-centricity and sustainability.

WORLD CLASS PRODUCTION FACILITIES

APAR offers an extensive range of fibre optic cables for outdoor, indoor and speciality applications, ranging from 1F to 864F, and up to 1152F in ribbon design, with an installed capacity of 200,000 km of cable per annum. We are also capable of manufacturing and delivering customised cables for special applications, such as specific diameter micro cables for FTTX, drop cables with G 657 bend insensitive fibre for last-mile connectivity, and long span ADSS (All Dielectric Self-supporting) aerial cables designed to be strung alongside power lines.

Our state-of-the-art machinery enables us to manufacture all types of fibre optic cables along with highly equipped quality system, accredited with ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 27001:2013 & TL9000 from BSI and IRCLASS. Over the past 25 years, we have supplied wide range of Fibre Optic Cables across various sectors.



World Class Fibre Optic Cable Manufacturing Facilities.





APAR TELECOM SOLUTIONS

OFC - OPTICAL FIBRE CABLES

APAR Telecom tailors high-capacity cable solutions for data centers, ISPs, telcos, and worldwide internet companies. APAR Fibre optic cables surpass copper lines in both capacity and transmission distance, enhancing internet speed upto 100 Gbps. APAR offers a comprehensive range of fibre optic cables for different communication needs, including aerial, underground, microduct, ribbon, IO, and indoor cables meeting international standards in a contemporary manufacturing facility certified with ISO, OHSAS, and TL9000. APAR's commitment to quality ensures that cables are manufactured to global standards and customer specifications.

APAR Telecom, a Global Telecom Solutions Leader, offers innovative connectivity solutions for:

Urbanisation: Mobility Networks across 4G/5G/6G and FTTx broadband Networks.

Rural Connectivity: Bridging the digital gap of fibre across rural regions.

Border Fortefication: Defence & MHA with border communication solutions.

Enterprise: Data centers, Railways & Metro's, Airports, Power Utilities, Renewable Solar & Wind Solutions, Oil & Gas, Mining, Space and many more.

HYBRID CABLES - GIGAVOLT

The Giga-Volt hybrid solution incorporates both fibre and copper conductors in one cable that deliver power and data to a remote device through copper and fibre medium. As the connectivity needs converges, APAR hybrid cables will assist builders to meet their demand with this unique cable designs across multiple use cases across 5G, Wi-fi, DAS, IOT & M2M

Reduced Environmental Impact: Giga-Volt combines power and data transmission into a single cable, eliminating the need for separate cables and reducing overall material usage.

Cost-Effective Installation: By deploying a single Giga-Volt cable instead of separate power and data cables, service providers save time, space, and capital during installation.

Faster Network Rollout: Giga-Volt acts as a unified solution, streamlining network infrastructure and facilitating faster deployment of advanced networks like 5G.

Simplified Cable Management: Using a single Giga-Volt cable reduces complexity by eliminating the need to manage multiple cables at the field level.

Lower Total Cost of Ownership (TCO): Giga-Volt offers a slim design and supports all network topologies, potentially leading to a lower overall cost of ownership for the network.

LAN CABLES - TARANG SHAKTI

High-performance connectivity meets personalized solutions at APAR While known for superior materials and global standards (ANSI/TIA, ISO/IEC, EN, UL/ETL/TUV), APAR goes beyond LAN cables. We distinguish ourselves by:

Customised Solutions: Avoid off-the-shelf. Our skilled team creates LAN cable and optical fibre solutions for your specific needs, maximizing efficiency and exceeding expectations.

Engine of Innovation: We invest extensively in R&D, pushing technology forward. Access innovative solutions to meet rising bandwidth, speed, and reliability needs. We set industry standards, not merely meet them.

Devoted Partnerships: We value long-term connections over transactions. Our attentive crew ensures a smooth and worry-free experience from initial consultations to post-installation support.

LIGHI VOELD VOELD ANDD Orical fibre cables offer a hassle-free alternative to
traditional copper cables. Their sleek and slim design,
combined with their lightweight and compact
construction, make them a breeze to install and manage. ODD ODD





OPTICAL FIBRE COLOUR CODING

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	FIBRE OPTIC COLOUR CODING AS PER EIA/TIA 598 INTERNATIONAL STANDARD						
1	Blue		13	Blue with Black Ring			
2	Orange		14	Orange- with Black Ring			
3	Green		15	Green- with Black Ring			
4	Brown		16	Brown- with Black Ring			
5	Grey	Ú)	17	Grey- with Black Ring			
6	White		18	White- with Black Ring			
7	Red		19	Red- with Black Ring			
8	Black		20	Natural with Black Ring			
9	Yellow		21	Yellow- with Black Ring			
10	Violet		22	Violet- with Black Ring			
11	Pink	Ú)	23	Pink- with Black Ring			
12	Aqua		24	Aqua- with Black Ring			

* "-" Marked are ring marked fibre.

FIB	RE OPTIC BUFFER COLOU	R CODING AS PI	ER EIA,	TIA 598 INTERNATIONAI	L STANDARD
1	Blue		13	Blue with Black Strip	
2	Orange		14	Orange- with Black Strip	
3	Green		15	Green- with Black Strip	
4	Brown		16	Brown- with Black Strip	
5	Grey		17	Grey- with Black Strip	
6	White		18	White- with Black Strip	
7	Red		19	Red- with Black Strip	
8	Black		20	Black with Yellow Strip	
9	Yellow		21	Yellow- with Black Strip	
10	Violet		22	Violet- with Black Strip	
11	Pink	Ú)	23	Pink- with Black Strip	
12	Aqua		24	Aqua- with Black Strip	

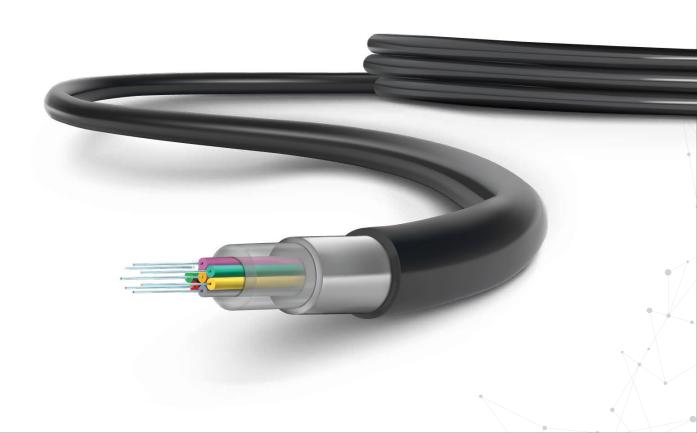


FIBRE OPTIC CABLE PRODUCT VARIETY

🚦 ArmoFib

Product: Armoured Fibre Optic Cables : Application: Direct Burial

01	Uni Tube Single Jacket Steel Tape Armoured Cable	1F-24F	BXML###1#FO###
02	Uni Tube Double Jacket Steel Tape Armoured Cable	1F-24F	BXML###2#F0###
03	Uni Tube Double Jacket Steel Wire Armoured Cable	1F-24F	BXML###2#W0###
04	Uni Tube Double Jacket Braided Armoured Cable	1F-24F	BXML###2#B0###
05	Uni Tube Ribbon Fibre Single Jacket Steel Tape Armoured Cable	48F-144F	BXMR###1#FO###
06	Uni Tube Ribbon Fibre Double Jacket Steel Tape Armoured Cable	48F-144F	BXMR###2#F0###
07	Uni Tube Ribbon Fibre Double Jacket Steel Wire Armoured Cable	48F-144F	BXMR###2#W0###
08	Uni Tube Ribbon Fibre Double Jacket Braided Armoured Cable	48F-144F	BXMR###2#BO###
09	Loose Tube Single Jacket Steel Tape Armoured Cable	1F-864F	BXML###1#F0###
10	Loose Tube Double Jacket Steel Tape Armoured Cable	1F-864F	BXML###2#F0###
11	Loose Tube Double Jacket Steel Wire Armoured Cable	1F-576F	BXML###2#W0###
12	Loose Tube Double Jacket Braided Armoured Cable	1F-576F	BXML###2#BO###
13	Loose Tube Ribbon Fibre Single Jacket Steel Tape Armoured Cable	48F-1152F	BXMR###1#FO###



UNI TUBE SINGLE JACKET STEEL TAPE **ARMOURED CABLE**

BXML###1#FO### 1F-48F

👯 ArmoFib

PRODUCT INFORMATION

TELECOM SOLUTI APAR's single jacket steel tape armoured cable is suitable for direct burial application. The cable is unitube design consisting of optical fibres in jelly-filled central tube. The tube is peripherally covered by corrugated steel tape, which gives cable excellent mechanical protection. Two steel wires are embedded in jacket to give cable extra tensile strength. The strong thermoplastic material jacket is provided over the corrugated steel tape armour which gives cable a strong and smooth finish. This robust product is available in 1-48F.

PRODUCT APPLICATION

- Long haul communication system.
- Junction communication system.
- High density communication
- LAN/WAN/SCADA/telemetry systems.

PRODUCT FEATURES

- Available in wide range of 1F-48F, in both single-mode and multi-mode fibre variants.
- High tensile and crush resistance, UV protection.
- Rodent and Termite resistant.
- Operational Temperature -40°C to +70°C.

COMPLIANCE STANDARDS

IEC 60793, IEC 60794, EIA/TIA, ITU-T, Telcordia GR-20, EN187000











Underground

Rodent Resistant

Water Resistant

UV Protected



OUTER JACKET

- CORRUGATED STEEL TAPE ARMOUR
- LOOSE TUBE (RIBBON FIBRES+GEL)
- RIGID STRENGTH MEMBERS

RIP CORD



FIBRE COUNT	FIBRE / RIBBON (12F)	RIBBON /TUBE	FIBRES/ TUBE	NOMINAL CABLE DIAMETER (MM)	NOMINAL CABLE WEIGHT (KG/KM)	MAXIMUM TENSILE STRENGTH (N)
48F	4	2	24	19.3	336 ±10%	2700
72F	6	2	24	19.3	343 ±10%	2700
96F	8	2	24	19.3	350 ±10%	2700
144F	12	2	24	22.0	448 ±10%	2700
288F	24	4	48	22.7	503 ±10%	2700
432F	36	6	72	24.0	578 ±10%	2700
864F	72	12	144	28.0	850 ±10%	3000
1152F	96	12	144	32.0	1120 ±10%	3000

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

NAME OF TEST	REFERENCE STANDARD	OFFERED VALUES			
Cable Bending Radius	IEC-60794-1-21-E11	Long ter	Long term = 20D, Short term = 10D		
Crush Resistance (N/10 cm)	IEC-60794-1-21-E3	2000N			
Impact strength (N.m)	IEC-60794-1-21-E4	25			
Torsion	IEC-60794-1-21-E7		± 180°		
Temperature Cycling	IEC-60794-1-22-F1			Storage -20°C to +70°C	
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hours		rs	
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hours no water leakage			

COLOUR CODING



• If there are more 12 fibres per tube then single or double stripes marking will be offered in compliance to EIA/TIA

FIBRE STANDARD COLOUR CODE



• If there are more than 12 tubes per cable then single or double stripes marking will be offered in compliance to EIA/TIA 598.

PRINTING DETAILS

• APAR INDIA ~Fibre Count~ Fibre Type~ OFC ~Laser Symbol~ Telephone Symbol~ Year of Manufacturing~ Cable ID~ Meter Marking

PACKING DETAILS

- Packing Length- 2Km, 4Km, 6Km (tolerance +/- 5%)
- Packing Material- Wooden Drum
- Customized drum lengths are available on request.

• Customized marking available on request.

UNI TUBE SINGLE DOUBLE STEEL TAPE **ARMOURED CABLE** BXML###2#FO###

1F-48F

🗄 ArmoFib

PRODUCT INFORMATION

TELECOM SOLUTI APAR's double jacket steel tape armoured cable is suitable for direct burial application. The cable is unitube design consisting of optical fibres in jelly-filled central tube. The tube is covered by a strong thermoplastic material inner sheath. Two steel wires are embedded in inner sheath to give cable extra tensile strength. This inner sheath is peripherally covered by corrugated steel tape, which gives the cable excellent mechanical protection. The strong thermoplastic outer jacket material is provided over the corrugated steel tape armour giving a strong and smooth finish. This robust product is available in 1-48F.

PRODUCT APPLICATION

- Long haul communication system.
- Junction communication system.
- Direct burial cable insallation by HDD machines
- Inter-office connections for video/data transmission.

PRODUCT FEATURES

- Available in wide range of 1F-48F, in both single-mode and multi-mode fibre variants.
- High tensile and crush resistance, UV protection.
- Rodent and Termite resistant.
- Operational Temperature -40°C to +70°C.

COMPLIANCE STANDARDS

IEC 60793, IEC 60794, EIA/TIA, ITU-T, Telcordia GR-20, EN187000











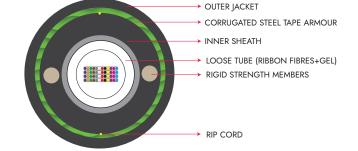


Underground

High Compressive Strength

Rodent Resistant Water Resistant

UV Protected





FIBRE COUNT	FIBRE/ TUBE	NOMINAL CABLE DIAMETER (MM)	NOMINAL CABLE WEIGHT (KG/KM)	MAXIMUM TENSILE STRENGTH (N)
2F	2	11.2	130 ± 10%	1500
4F	4	11.2	130 ± 10%	1500
6F	6	11.2	130 ± 10%	1500
12F	12	11.2	130 ± 10%	1500
24F	24	11.5	135 ± 10%	1500
48F	48	12.5	160 ± 10%	2000

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

NAME OF TEST	REFERENCE STANDARD	OFFERED VALUES			
Cable Bending Radius	IEC-60794-1-21-E11	Long ter	m = 20D, Short terr	n = 10D	
Crush Resistance (N/10 cm)	IEC-60794-1-21-E3		2000N		
Impact strength (N.m)	IEC-60794-1-21-E4	10			
Torsion	IEC-60794-1-21-E7	± 180°			
Temperature Cycling	IEC-60794-1-22-F1			Storage -20°C to +70°C	
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr			
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3	1m water head, 3m samples, 24 hrs no water leakage		

COLOUR CODING

FIBRE STANDARD COLOUR CODE



• If there are more 12 fibres per tube then single or double stripes marking will be offered in compliance to EIA/TIA

FIBRE STANDARD COLOUR CODE

1-Blue 2-Orange 3-Green 4-Brown 5-Grey 6-White 7-Red 8-Black 9-Yellow 10-Violet 11-Pink 12- Aqua

• If there are more than 12 tubes per cable then single or double stripes marking will be offered in compliance to EIA/TIA 598.

PRINTING DETAILS

 APAR INDIA ~Fibre Count~ Fibre Type~ OFC ~Laser Symbol~ Telephone Symbol~ Year of Manufacturing~ Cable ID~ Meter Marking

- Packing Length- 2Km, 4Km, 6Km (tolerance +/- 5%)
- Packing Material- Wooden Drum
- Customized drum lengths are available on request.
- Customized marking available on request.

UNI TUBE DOUBLE JACKET STEEL WIRE ARMOURED CABLE

BXMI ###2#W0### 1F-48F

🗄 ArmoFib

PRODUCT INFORMATION

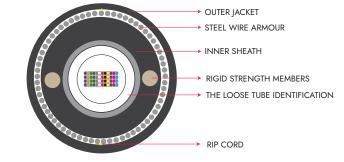
TELECON SOLUTI APAR's double jacket steel tape armoured cable is suitable for direct burial application. The cable is unitube consisting of optical fibres in jelly-filled central tube. The tube is covered by a strong thermoplastic material inner sheath. Two rigid strength members are embedded in inner sheath to give cable extra tensile strength. This inner sheath is peripherally covered by steel wire armouring, which gives cable excellent mechanical & rodent protection. The strong thermoplastic material jacket is provided over the steel wire armour. which gives the cable a strong and smooth finish.

PRODUCT APPLICATION

- Long haul communication system.
- Junction communication system.
- Direct burial cable insallation by HDD machines.
- Inter-office connections for video/data transmission.

PRODUCT FEATURES

- Available in wide range of 1F-48F, in both single-mode and multi-mode fibre variants.
- High tensile and crush resistance, UV protection.
- Rodent and Termite resistant.
- Operational Temperature -40°C to +70°C



COMPLIANCE STANDARDS

IEC 60793, IEC 60794, EIA/TIA, ITU-T, Telcordia GR-20, EN187000.











Underground

High Compressive Water Resistant Strength

UV Protected



FIBRE COUNT	FIBRE/ TUBE	NOMINAL CABLE DIAMETER (MM)	NOMINAL CABLE WEIGHT (KG/KM)	MAXIMUM TENSILE STRENGTH (N)
2F	2	11.4	200±10%	2500
4F	4	11.4	200±10%	2500
6F	6	11.4	200±10%	2500
12F	12	11.4	200±10%	2500
24F	24	11.7	220±10%	2500
48F	48	13.0	250±10%	3000

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

NAME OF TEST	REFERENCE STANDARD	OFFERED VALUES		
Cable Bending Radius	IEC-60794-1-21-E11	Long ter	m = 20D, Short terr	n = 10D
Crush Resistance (N/10 cm)	IEC-60794-1-21-E3	3000N		
Impact strength (N.m)	IEC-60794-1-21-E4	10		
Torsion	IEC-60794-1-21-E7		± 180°	
Temperature Cycling	IEC-60794-1-22-F1			Storage -20°C to +70°C
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr		
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hrs no water leakage		

COLOUR CODING

FIBRE STANDARD COLOUR CODE



• If there are more 12 fibres per tube then single or double stripes marking will be offered in compliance to EIA/TIA

FIBRE STANDARD COLOUR CODE

1-Blue 2-Orange 3-Green 4-Brown 5-Grey 6-White 7-Red 8-Black 9-Yellow 10-Violet 11-Pink 12- Aqua

• If there are more than 12 tubes per cable then single or double stripes marking will be offered in compliance to EIA/TIA 598.

PRINTING DETAILS

APAR INDIA ~Fibre Count~ Fibre Type~ OFC
 ~Laser Symbol~ Telephone Symbol~ Year of
 Manufacturing~ Cable ID~ Meter Marking

- Packing Length- 2Km, 4Km, 6Km (tolerance +/- 5%)
- Packing Material- Wooden Drum
- Customized drum lengths are available on request.
- Customized marking available on request.

UNI TUBE DOUBLE JACKET BRAIDED ARMOURED CABLE

BXML###2#BO### 1F-48F

TELECOM SOLUTION

🚼 ArmoFib

PRODUCT INFORMATION

APAR's double jacket braided armoured cable is suitable for direct burial application. The cable is unitube design consisting of optical fibres in jelly-filled loose tube. The loose tube is covered by a strong thermoplastic material inner sheath. Two rigid strength members are embedded in inner sheath to give cable extra tensile strength. This inner sheath is peripherally covered by steel wire braiding, which gives cable excellent mechanical & rodent protection. The strong thermoplastic material jacket is provided over the steel wire braiding armour which gives the cable a strong and smooth finish. This robust product is available in 1-48F.

PRODUCT APPLICATION

- Long haul communication system.
- Junction communication system.
- Direct burial cable insallation by HDD machines.
- Inter-office connections for video/data transmission.

PRODUCT FEATURES

- Available in wide range of 1F-48F, in both single-mode and multi-mode fibre variants.
- High tensile and crush resistance, UV protection.
- Rodent and Termite resistant.
- Operational Temperature -40°C to +70°C.

COMPLIANCE STANDARDS

IEC 60793, IEC 60794, EIA/TIA, ITU-T, Telcordia GR-20, EN187000.









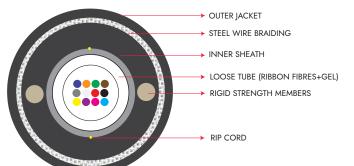


Underground

Rodent Resistant

Water Resistant

UV Protected





FIBRE COUNT	FIBRE/ TUBE	NOMINAL CABLE DIAMETER (MM)	NOMINAL CABLE WEIGHT (KG/KM)	MAXIMUM TENSILE STRENGTH (N)
2F	2	11.0	145±10%	2000
4F	4	11.0	145±10%	2000
6F	6	11.0	145±10%	2000
12F	12	11.0	145±10%	2000
24F	24	11.5	158±10%	2000
48F	48	13.0	195±10%	2500

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

NAME OF TEST	REFERENCE STANDARD	OFFERED VALUES		
Cable Bending Radius	IEC-60794-1-21-E11	Long term = 20D, Short term = 10D		
Crush Resistance (N/10 cm)	IEC-60794-1-21-E3	2000N		
Impact strength (N.m)	IEC-60794-1-21-E4	10		
Torsion	IEC-60794-1-21-E7	± 180°		
Temperature Cycling	IEC-60794-1-22-F1			Storage -20°C to +70°C
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr		
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hrs no water leakage		

COLOUR CODING

FIBRE STANDARD COLOUR CODE



• If there are more 12 fibres per tube then single or double stripes marking will be offered in compliance to EIA/TIA

FIBRE STANDARD COLOUR CODE

1-Blue 2-Orange 3-Green 4-Brown 5-Grey 6-White 7-Red 8-Black 9-Yellow 10-Violet 11-Pink 12-Aqua

• If there are more than 12 tubes per cable then single or double stripes marking will be offered in compliance to EIA/TIA 598.

PRINTING DETAILS

APAR INDIA ~Fibre Count~ Fibre Type~ OFC
 ~Laser Symbol~ Telephone Symbol~ Year of
 Manufacturing~ Cable ID~ Meter Marking

Customized marking available on request.

- Packing Length- 2Km, 4Km, 6Km (tolerance +/- 5%)
- Packing Material- Wooden Drum
- Customized drum lengths are available on request.

UNI TUBE RIBBON FIBRE SINGLE JACKET STEEL TAPE ARMOURED CABLE [ARMOFIB]

BXML###2#BO### 48F - 144F

TELECOM SOLUTI

🗄 ArmoFib

PRODUCT INFORMATION

APAR's single jacket ribbon steel tape armoured cable is suitable for direct burial application. The cable is unitube consisting of optical fibre ribbons in jelly-filled central tube. The tube is peripherally covered by corrugated steel tape, which gives the cable excellent mechanical protection. Two rigid strength members are embedded in jacket to give cable extra tensile strength. The strong thermoplastic material jacket is provided over the corrugated steel tape armour which gives the cable a strong and smooth finish. This robust product is available in 48-144F.

PRODUCT APPLICATION

- Long haul communication system.
- Junction communication system.
- Direct burial cable insallation by HDD machines.
- Premise network application.

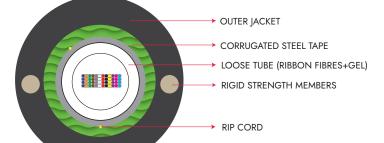
PRODUCT FEATURES

- Available in wide range of 48F-144F, in both single-mode and multi-mode fibre variants.
- High tensile and crush resistance, UV protection.
- Rodent and Termite resistant.
- Operational Temperature -40°C to +70°C.

COMPLIANCE STANDARDS

IEC 60793, IEC 60794, EIA/TIA, ITU-T, Telcordia GR-20, EN187000.







FIBRE COUNT	FIBRE COUNT	RIBBON FIBRE/ TUBE (12F/RIBBON)	NOMINAL CABLE DIAMETER (MM)	NOMINAL CABLE WEIGHT (KG/KM)	MAXIMUM TENSILE STRENGTH (N)
48	12	4	13.5	145±10%	1500
72F	12	6	13.8	150±10	1500
96F	12	8	14.2	160±10%	1500
144F	12	12	15.5	185±10%	1500

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

NAME OF TEST	REFERENCE STANDARD	OFFERED VALUES		
Cable Bending Radius	IEC-60794-1-21-E11	Long ter	m = 20D, Short teri	m = 10D
Crush Resistance (N/10 cm)	IEC-60794-1-21-E3		2000N	
Impact strength (N.m)	IEC-60794-1-21-E4	10		
Torsion	IEC-60794-1-21-E7		± 180°	
Temperature Cycling	IEC-60794-1-22-F1	InstallationOperationStorage-20°C to +70°C-20°C to +70°C-20°C to +70°C		Storage -20°C to +70°C
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr		
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3	m samples, 24 hrs	no water leakage

COLOUR CODING

FIBRE STANDARD COLOUR CODE



• If there are more 12 fibres per tube then single or double stripes marking will be offered in compliance to EIA/TIA

FIBRE STANDARD COLOUR CODE

• If there are more than 12 tubes per cable then single or double stripes marking will be offered in compliance to EIA/TIA 598.

1-Blue 2-Orange 3-Green 4-Brown 5-Grey 6-White 7-Red 8-Black 9-Yellow 10-Violet 11-Pink 12-Aqua

PRINTING DETAILS

APAR INDIA ~Fibre Count~ Fibre Type~ OFC
 ~Laser Symbol~ Telephone Symbol~ Year of
 Manufacturing~ Cable ID~ Meter Marking

• Customized marking available on request.

- Packing Length- 2Km, 4Km, 6Km (tolerance +/- 5%)
- Packing Material- Wooden Drum
- Customized drum lengths are available on request.

UNI TUBE RIBBON FIBRE DOUBLE JACKET STEEL TAPE ARMOURED CABLE

BXMR###2#FO### 48F-144F

TELECON SOLUTIONS

OUTER JACKET

👪 ArmoFib

PRODUCT INFORMATION

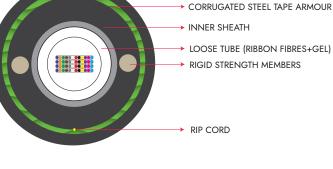
APAR's double jacket ribbon steel tape armoured cable is suitable for direct burial application. The cable is unitube consisting of optical fibre ribbons in jelly-filled loose tube. The loose tube is covered by a strong thermoplastic material inner sheath. Two rigid strength members are embedded in inner sheath to give cable extra tensile strength. This inner sheath is peripherally covered by corrugated steel tape armouring, which gives cable excellent mechanical & rodent protection. The strong thermoplastic material jacket is provided over the corrugated steel tape armouring which gives the cable a strong and smooth finish. This robust product is available in 48-144F.

PRODUCT APPLICATION

- Long haul communication system.
- Junction communication system.
- Direct burial cable insallation by HDD machines.
- Premise network application.

PRODUCT FEATURES

- Available in wide range of 48F-144F, in both single-mode and multi-mode fibre variants.
- High tensile and crush resistance, UV protection.
- Rodent and Termite resistant.
- Operational Temperature -40°C to +70°C.



COMPLIANCE STANDARDS

IEC 60793, IEC 60794, EIA/TIA, ITU-T, Telcordia GR-20, EN187000.





FIBRE COUNT	RIBBON FIBRE/TUBE (12F/RIBBON)	NOMINAL CABLE DIAMETER (MM)	NOMINAL CABLE WEIGHT (KG/KM)	MAXIMUM TENSILE STRENGTH (N)
48F	4	13.2	170±15%	1000
72F	6	13.7	185±15%	1000
96F	8	14.3	195±15%	1000
144F	12	15.8	235±15%	1000

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

NAME OF TEST	REFERENCE STANDARD	OFFERED VALUES		
Cable Bending Radius	IEC-60794-1-21-E11	Long ter	m = 20D, Short teri	m = 10D
Crush Resistance (N/10 cm)	IEC-60794-1-21-E3		2000N	
Impact strength (N.m)	IEC-60794-1-21-E4	10		
Torsion	IEC-60794-1-21-E7		± 180°	
Temperature Cycling	IEC-60794-1-22-F1	InstallationOperationStorage-20°C to +70°C-20°C to +70°C-20°C to +70°C		Storage -20°C to +70°C
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr		
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3	3m samples, 24 hrs	no water leakage

COLOUR CODING

FIBRE STANDARD COLOUR CODE



• If there are more 12 fibres per tube then single or double stripes marking will be offered in compliance to EIA/TIA

FIBRE STANDARD COLOUR CODE

1-Blue 2-Orange 3-Green 4-Brown 5-Grey 6-White 7-Red 8-Black 9-Yellow 10-Violet 11-Pink 12-Aqua

• If there are more than 12 tubes per cable then single or double stripes marking will be offered in compliance to EIA/TIA 598.

PRINTING DETAILS

APAR INDIA ~Fibre Count~ Fibre Type~ OFC ~Laser
 Symbol~ Telephone Symbol~ Year of Manufacturing~ Cable
 ID~ Meter Marking

• Customized marking available on request.

- Packing Length- 2Km, 4Km, 6Km (tolerance +/- 5%)
- Packing Material- Wooden Drum
- Customized drum lengths are available on request.

UNI TUBE RIBBON FIBRE DOUBLE JACKET STEEL WIRE ARMOURED CABLE

BXMR###2#W0### 48F-144F

🗄 ArmoFib

PRODUCT INFORMATION

APAR's double jacket ribbon steel wire armoured cable is suitable direct burial application. The cable is unitube consisting of optical fibre ribbons in jelly-filled lcentral tube. The tube is covered by a strong thermoplastic material inner sheath. Two rigid strength members are embedded in inner sheath to give cable extra tensile strength. This inner sheath is peripherally covered by steel wire armouring, which gives cable excellent mechanical protection. The strong thermoplastic material jacket is provided over the steel wire armour which gives the cable a strong and smooth finish. This product is available in 48-144F.

PRODUCT APPLICATION

- Long haul communication system.
- Junction communication system.
- Direct burial cable insallation by HDD machines.
- Premise network application.

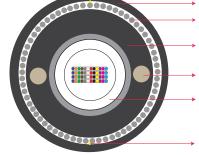
PRODUCT FEATURES

- Available in wide range of 48F-144F, in both single-mode and multi-mode fibre variants.
- High tensile and crush resistance, UV protection.
- Rodent and Termite resistant.
- Operational Temperature -40°C to +70°C

COMPLIANCE STANDARDS

IEC 60793, IEC 60794, EIA/TIA, ITU-T, Telcordia GR-20, EN187000.





- OUTER JACKET STEEL WIRE ARMOUR INNER SHEATH
- RIGID STRENGTH MEMBERS
- LOOSE TUBE (RIBBON FIBRES+GEL)

RIP CORD



FIBRE COUNT	RIBBON FIBRE/TUBE (12F/RIBBON)	NOMINAL CABLE DIAMETER (MM)	NOMINAL CABLE WEIGHT (KG/KM)	MAXIMUM TENSILE STRENGTH (N)
48F	4	13.5	270±15%	3000
72F	6	14.0	285±15%	3000
96F	8	14.6	290±15%	3000
144F	12	16.1	335±15%	3000

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

NAME OF TEST	REFERENCE STANDARD	OFFERED VALUES		
Cable Bending Radius	IEC-60794-1-21-E11	Long ter	m = 20D, Short teri	m = 10D
Crush Resistance (N/10 cm)	IEC-60794-1-21-E3		4000N	
Impact strength (N.m)	IEC-60794-1-21-E4	25		
Torsion	IEC-60794-1-21-E7		± 180°	
Temperature Cycling	IEC-60794-1-22-F1			Storage -20°C to +70°C
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hours		
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3n	n samples, 24 hours	s no water leakage

COLOUR CODING

FIBRE STANDARD COLOUR CODE



• If there are more 12 fibres per tube then single or double stripes marking will be offered in compliance to EIA/TIA

FIBRE STANDARD COLOUR CODE



• If there are more than 12 tubes per cable then single or double stripes marking will be offered in compliance to EIA/TIA 598.

PRINTING DETAILS

 APAR INDIA ~Fibre Count~ Fibre Type~ OFC ~Laser Symbol~ Telephone Symbol~ Year of Manufacturing~ Cable ID~ Meter Marking

• Customized marking available on request.

- Packing Length- 2Km, 4Km, 6Km (tolerance +/- 5%)
- Packing Material- Wooden Drum
- Customized drum lengths are available on request.

UNI TUBE RIBBON FIBRE DOUBLE JACKET **BRAIDED ARMOURED CABLE**

BXMR###2#B0### 48F-144F

🗄 ArmoFib

PRODUCT INFORMATION

TELECON SOLUT APAR's double jacket ribbon braided armoured cable is suitable direct burial application. The cable is unitube design consisting of optical fibre ribbons in jelly-filled loose tube. The loose tube is covered by a strong thermoplastic material inner sheath. Two rigid strength members are embedded in inner sheath to give cable extra tensile strength. This inner sheath is peripherally covered by steel wire braiding, which gives cable excellent mechanical protection. The strong thermoplastic material jacket is provided over the steel wire braiding armour which gives cable a strong and smooth finish. This product is available in 48-144F.

PRODUCT APPLICATION

- Long haul communication system.
- Junction communication system.
- Direct burial cable insallation by HDD machines.
- Premise network application.

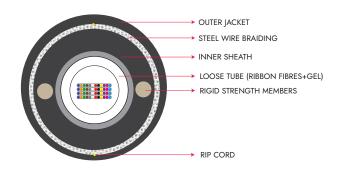
PRODUCT FEATURES

- Available in wide range of 48F-144F, in both single-mode and multi-mode fibre variants.
- High tensile and crush resistance, UV protection.
- Rodent and Termite resistant.
- Operational Temperature -40°C to +70°C.

COMPLIANCE STANDARDS

IEC 60793, IEC 60794, EIA/TIA, ITU-T, Telcordia GR-20, EN187000







FIBRE COUNT	RIBBON FIBRE/TUBE (12F/RIBBON)	NOMINAL CABLE DIAMETER (MM)	NOMINAL CABLE WEIGHT (KG/KM)	MAXIMUM TENSILE STRENGTH (N)
48F	4	13.6	200±15%	1500
72F	6	14.1	215±15%	1500
96F	8	14.7	220±15%	1500
144F	12	16.2	265±15%	1500

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

NAME OF TEST	REFERENCE STANDARD	OFFERED VALUES		
Cable Bending Radius	IEC-60794-1-21-E11	Long ter	m = 20D, Short ter	m = 10D
Crush Resistance (N/10 cm)	IEC-60794-1-21-E3		2000N	
Impact strength (N.m)	IEC-60794-1-21-E4	10		
Torsion	IEC-60794-1-21-E7		± 180°	
Temperature Cycling	IEC-60794-1-22-F1			Storage -20°C to +70°C
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hours		
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3n	n samples, 24 hour	s no water leakage

COLOUR CODING

FIBRE STANDARD COLOUR CODE



• If there are more 12 fibres per tube then single or double stripes marking will be offered in compliance to EIA/TIA

FIBRE STANDARD COLOUR CODE

1-Blue 2-Orange 3-Green 4-Brown 5-Grey 6-White 7-Red 8-Black 9-Yellow 10-Violet 11-Pink 12-Aqua

• If there are more than 12 tubes per cable then single or double stripes marking will be offered in compliance to EIA/TIA 598.

PRINTING DETAILS

- APAR INDIA ~Fibre Count~ Fibre Type~ OFC
 ~Laser Symbol~ Telephone Symbol~ Year of
 Manufacturing~ Cable ID~ Meter Marking
- Customized marking available on request.

- Packing Length- 2Km, 4Km, 6Km (tolerance +/- 5%)
- Packing Material- Wooden Drum
- Customized drum lengths are available on request.

LOOSE TUBE SINGLE JACKET STEEL TAPE ARMOURED CABLE

BXML###1#FO### 1F-864F

TELECON SOLUTIC

🗄 ArmoFib

PRODUCT INFORMATION

Fibre may be provided to gain necessary tensile strength. This core is covered by corrugated steel tape, which gives the cable excellent mechanical protection. The layer of strong thermoplastic material is covered as a jacket over steel tape armour. The jacket gives the cable a strong and smooth finish. This product is available in various fibre counts.

PRODUCT APPLICATION

- Long haul communication system.
- Junction communication system.
- Inter-office connections for video/data transmission.
- LAN/WAN/SCADA/telemetry systems.

PRODUCT FEATURES

- Available in wide range of 48F-144F, in both single-mode and multi-mode fibre variants.
- High tensile and crush resistance, UV protection.
- Rodent and Termite resistant.

OUTER JACKET CORRUGATED STEEL TAPE ARMOUR CORE WRAPPING TAPE LOOSE TUBE (COLOURED FIBRES+GEL) WB YARNS CENTRAL STRENGTH MEMBER

COMPLIANCE STANDARDS

IEC 60793, IEC 60794, EIA/TIA, ITU-T, Telcordia GR-20, EN187000.













Underground

Rodent Resistant Water Resistant





FIBRE COUNT	FIBRE/ TUBE	NUMBER OF TUBE'S	NOMINAL CABLE DIAMETER (MM)	NOMINAL CABLE WEIGHT (KG/KM)	MAXIMUM TENSILE STRENGTH (N)
6F-72F	6F~12F	1~6	10.5	130±10%	1800
96F	12	8	11.5	125±10%	1800
144F	12	12	14.0	190±15%	2000
288F	12	24	15.0	230±20%	2000
576F	24	24	21.5	410±20%	2000
864F	24	36	24.0	510±20%	2000

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

NAME OF TEST	REFERENCE STANDARD	OFFERED VALUES		
Cable Bending Radius	IEC-60794-1-21-E11	Long term = 20D, Short term = 10D		
Crush Resistance (N/10 cm)	IEC-60794-1-21-E3	2000N		
Impact strength (N.m)	IEC-60794-1-21-E4	10		
Torsion	IEC-60794-1-21-E7	± 180°		
Temperature Cycling	IEC-60794-1-22-F1	InstallationOperationStorage-20°C to +70°C-20°C to +70°C-20°C to +70°C		
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hours		
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hours no water leakage		

COLOUR CODING

FIBRE STANDARD COLOUR CODE



• If there are more 12 fibres per tube then single or double stripes marking will be offered in compliance to EIA/TIA

FIBRE STANDARD COLOUR CODE

1-Blue 2-Orange 3-Green 4-Brown 5-Grey 6-White 7-Red 8-Black 9-Yellow 10-Violet 11-Pink 12-Aque

• If there are more than 12 tubes per cable then single or double stripes marking will be offered in compliance to EIA/TIA 598.

PRINTING DETAILS

- APAR INDIA ~Fibre Count~ Fibre Type~ OFC~
 Laser Symbol~ Telephone Symbol~
 Year of Manufacturing~ Cable ID~ Meter Marking
- Customized marking available on request.

- Packing Length- 2Km, 4Km, 6Km (tolerance +/- 5%)
- Packing Material- Wooden Drum
- Customized drum lengths are available on request.

LOOSE TUBE DOUBLE JACKET STEEL TAPE ARMOURED CABLE

BXML###2#FO### 1F-864F

🗄 ArmoFib

PRODUCT INFORMATION

TELECON SOLUTION Apar's Double jacket steel tape Armoured cable is suitable for direct burial application. The cable consist of optical fibres in jelly filled loose tubes, which are stranded over FRP (fibre reinforced plastic rod). The FRP rod is excellent central strength member. The stranded core is filled with water blocking compound surrounded with suitable tape to avoid water penetration. Glass yarns may be provided to gain necessary tensile strength. This core is covered by thermoplastic material as inner sheath. This inner sheath is covered by corrugated steel tape, which gives cable excellent mechanical protection. The layer of strong thermoplastic material is covered as jacket over steel tape armour. The jacket gives the cable a strong and smooth finish. This product is available in various fibre counts.

PRODUCT APPLICATION

- Long haul communication system.
- Junction communication system.
- Inter-office connections for video/data transmission.
- LAN/WAN/SCADA/telemetry systems.

PRODUCT FEATURES

- Available in wide range of 1F-864F, in both single-mode and multi-mode fibre variants.
- Excellent design gives rapid midspan excess.
- Tensile and crush resistance, UV protection.
- Best Rodent and Termite resistant.
- Also available in customized options as per customer requirements.

COMPLIANCE STANDARDS

IEC 60793, IEC 60794, EIA/TIA, ITU-T, Telcordia GR-20, EN187000













Underground

High Compressive Strength

Water Resistant





OUTER IACKET

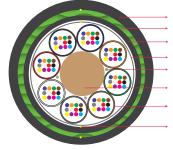
NNER SHEATH CORE WRAPPING TAPE

WB YARNS

RIP CORD

CORRUGATED STEEL TAPE ARMOUR

CENTRAL STRENGTH MEMBER LOOSE TUBE (COLOURED FIBRES+GEL)





FIBRE COUNT	FIBRE/ TUBE	NUMBER OF TUBE'S	NOMINAL CABLE DIAMETER (MM)	NOMINAL CABLE WEIGHT (KG/KM)	MAXIMUM TENSILE STRENGTH (N)
6F-72F	6F~12F	1~6	12.5	145±10%	2000
96F	12	8	13.5	180±15%	2000
144F	12	12	16.0	240±15%	2700
288F	12	24	18.0	305±20%	2700
576F	24	24	24.0	480±25%	2700
864F	24	36	26.5	590±25%	2700

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

NAME OF TEST	REFERENCE STANDARD	OFFERED VALUES		
Cable Bending Radius	IEC-60794-1-21-E11	Long term = 20D, Short term = 10D		
Crush Resistance (N/10 cm)	IEC-60794-1-21-E3	4000N		
Impact strength (N.m)	IEC-60794-1-21-E4	25		
Torsion	IEC-60794-1-21-E7	± 180°		
Temperature Cycling	IEC-60794-1-22-F1	InstallationOperationStorage-20°C to +70°C-20°C to +70°C-20°C to +70°C		
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hours		
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hours no water leakage		

COLOUR CODING

FIBRE STANDARD COLOUR CODE



• If there are more 12 fibres per tube then single or double stripes marking will be offered in compliance to EIA/TIA

FIBRE STANDARD COLOUR CODE

1-Blue 2-Orange 3-Green 4-Brown 5-Grey 6-White 7-Red 8-Black 9-Yellow 10-Violet 11-Pink 12- Aqua

• If there are more than 12 tubes per cable then single or double stripes marking will be offered in compliance to EIA/TIA 598.

PRINTING DETAILS

- APAR INDIA ~Fibre Count~ Fibre Type~ OFC~
 Laser Symbol~ Telephone Symbol~
 Year of Manufacturing~ Cable ID~ Meter Marking
- Customized marking available on request.

- Packing Length- 2Km, 4Km, 6Km (tolerance +/- 5%)
- Packing Material- Wooden Drum
- Customized drum lengths are available on request.

LOOSE TUBE DOUBLE JACKET STEEL TAPE ARMOURED CABLE

BXML###2#WO### 1F-864F

🗄 ArmoFib

PRODUCT INFORMATION

TELECON SOLUTION Apar's Double jacket steel wire armoured cable is suitable for direct burial application. The cable consist of optical fibres in jelly filled loose tubes, which are stranded over FRP (fibre reinforced plastic rod). The FRP rod is excellent central strength member. The stranded core is filled with water blocking compound surrounded with suitable tape to avoid water penetration. This core is covered by thermoplastic material as inner sheath. This inner sheath is covered by steel wires, which gives cable excellent mechanical protection. The layer of strong thermoplastic material is covered as jacket over steel wire armour. The jacket gives the cable a strong and smooth finish. This product is available in various fibre counts.

PRODUCT APPLICATION

- Long haul communication system.
- Junction communication system.
- Inter-office connections for video/data transmission.
- LAN/WAN/SCADA/telemetry systems.

PRODUCT FEATURES

- Available in wide range of 1F-864F, in both single-mode and multi-mode fibre variants.
- Excellent design gives rapid midspan excess.
- High tensile resistance, UV protection.
- Lightweight, flexible and easy to install for aerial application.
- Also available in customized options as per customer requirements.

COMPLIANCE STANDARDS

IEC 60793, IEC 60794, EIA/TIA, ITU-T, Telcordia GR-20, EN187000 and Customer specifications.









Water Resistant





Underground

High Compressive Rodent Resistant Strength

UV Protected

RIP CORD

OUTER JACKET

- STEEL WIRE ARMOUR INNER SHEATH CORF WRAPPING TAPE CENTRAL STRENGTH MEMBER WB YARNS
- LOOSE TUBE (COLOURED FIBRES+GEL)



FIBRE COUNT	FIBRE/ TUBE	NUMBER OF TUBE'S	NOMINAL CABLE DIAMETER (MM)	NOMINAL CABLE WEIGHT (KG/KM)	MAXIMUM TENSILE STRENGTH (N)
6F-72F	6F~12F	1~6	13.0	265±15%	4000
96F	12	8	14.5	310±15%	5000
144F	12	12	16.8	400±20%	5000
288F	12	24	19.2	500±20%	5000
576F	24	24	24.5	785 ± 20%	5000

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

NAME OF TEST	REFERENCE STANDARD	OFFERED VALUES		
Cable Bending Radius	IEC-60794-1-21-E11	Long term = 20D, Short term = 10D		
Crush Resistance (N/10 cm)	IEC-60794-1-21-E3	5000N		
Impact strength (N.m)	IEC-60794-1-21-E4	25		
Torsion	IEC-60794-1-21-E7	± 180°		
Temperature Cycling	IEC-60794-1-22-F1	Installation -20°C to +70°C	Operation -20°C to +70°C	Storage -20°C to +70°C
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hours		
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hours no water leakage		

COLOUR CODING

FIBRE STANDARD COLOUR CODE



FIBRE STANDARD COLOUR CODE

If there are more than 12 tubes per cable then single or double stripes marking will be offered in compliance to

EIA/TIA 598.

PRINTING DETAILS

- APAR INDIA ~Fibre Count~ Fibre Type~ OFC~ Laser Symbol~ Telephone Symbol~
 Year of Manufacturing~ Cable ID~ Meter Marking
- Customized marking available on request.

- Packing Length- 2Km, 4Km, 6Km (tolerance +/- 5%)
- Packing Material- Wooden Drum
- Customized drum lengths are available on request.

LOOSE TUBE DOUBLE JACKET BRAIDED **ARMOURED CABLE** BXML###2#BO###

1F-576F

🗄 ArmoFib

PRODUCT INFORMATION

APAR's Double jacket braided armoured cable is suitable for direct burial application. The cable consists of optical fibres in jelly-filled loose tubes, which are stranded over FRP (fibre-reinforced plastic rod). The FRP rod is an excellent central strength member. The stranded core is filled with water blocking compound surrounded with suitable tape to avoid water penetration. This core is covered by thermoplastic material as an inner sheath. This inner sheath is covered by steel wire braiding, which gives cable excellent mechanical protection. The layer of strong thermoplastic material is covered as a jacket over steel wire braiding. The jacket gives the cable a strong and smooth finish. This product is available in various fibre counts.

PRODUCT APPLICATION

- Long haul communication system.
- Junction communication system.
- High density communication
- LAN/WAN/SCADA/telemetry systems.

PRODUCT FEATURES

- Available in wide range of 1F-576F, in both single-mode and multi-mode fibre variants.
- Excellent design gives rapid midspan excess
- High tensile and crush resistance, UV protection.
- Micro size, lightweight, flexible and easy to install.
- Also available in customized options as per customer requirements.

COMPLIANCE STANDARDS

IEC 60793, IEC 60794, EIA/TIA, ITU-T, Telcordia GR-20, EN187000.





Rodent Resistant

Water Resistant

UV Protected

FLAME RETARDANT OUTER CKET

- STEEL WIRE BRAIDING FLAME RETARDANT INNER EATH
- CORE WRAPPING TAPE
- CENTRAL STRENGTH MEMBER WB YARNS
- LOOSE TUBE (RIBBON FIBRES+GEL)
- RIP CORD



FIBRE COUNT	FIBRE/ TUBE	NUMBER OF TUBE'S	NOMINAL CABLE DIAMETER (MM)	NOMINAL CABLE WEIGHT (KG/KM)	MAXIMUM TENSILE STRENGTH (N)
6F-72F	6F~12F	1~6	12.7	175±15%	2000
96F	12	8	14.0	215±15%	2500
144F	12	12	16.3	288±20%	2500
288F	12	24	20.5	430±20%	2500
576F	24	24	23.5	560±20%	2500

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

NAME OF TEST	REFERENCE STANDARD	OFFERED VALUES		
Cable Bending Radius	IEC-60794-1-21-E11	Long term = 20D, Short term = 10D		
Crush Resistance (N/10 cm)	IEC-60794-1-21-E3	2000N		
Impact strength (N.m)	IEC-60794-1-21-E4	25		
Torsion	IEC-60794-1-21-E7	± 180°		
Temperature Cycling	IEC-60794-1-22-F1	Installation -20°C to +70°C	Operation -20°C to +70°C	Storage -20°C to +70°C
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hours		
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hours no water leakage		

COLOUR CODING

FIBRE STANDARD COLOUR CODE



• If there are more 12 fibres per tube then single or double stripes marking will be offered in compliance to EIA/TIA

FIBRE STANDARD COLOUR CODE

• If there are more than 12 tubes per cable then single or double stripes marking will be offered in compliance to EIA/TIA 598.

1-Blue 2-Orange 3-Green 4-Brown 5-Grey 6-White 7-Red 8-Black 9-Yellow 10-Violet 11-Pink 12- Aqu

PRINTING DETAILS

- APAR INDIA ~Fibre Count~ Fibre Type~ OFC~
 Laser Symbol~ Telephone Symbol~
 Year of Manufacturing~ Cable ID~ Meter Marking
- Customized marking available on request.

- Packing Length- 2Km, 4Km, 6Km (tolerance +/- 5%)
- Packing Material- Wooden Drum
- Customized drum lengths are available on request.

LOOSE TUBE RIBBON FIBRE SINGLE JACKET STEEL TAPE ARMOURED CABLE

BXMR###1#FO### 48F-1152F

🗄 ArmoFib

PRODUCT INFORMATION

TELECON SOLUTION APAR's Single jacket steel tape Armoured Ribbon cable is suitable for direct burial or duct application. The cable consists of optical fibres in jelly-filled loose tubes, which are stranded over FRP (fibre-reinforced plastic rod). The FRP rod is an excellent central strength member. The stranded core is filled with water blocking compound surrounded with suitable tape to avoid water penetration. This core is covered by corrugated steel tape, which gives cable excellent mechanical protection. The layer of strong thermoplastic material is covered as jacket over steel tape armour. The jacket gives the cable a strong and smooth finish. This product is available in various fibre counts.

PRODUCT APPLICATION

- Long haul communication system.
- Junction communication system.
- High Density communication.
- Premise network application.

PRODUCT FEATURES

- Available in wide range of 48F-1152F, in both single-mode and multi-mode fibre variants.
- Excellent design gives rapid midspan excess
- Tensile and crush resistance, UV protection.
- Micro size, lightweight, flexible and easy to install.
- Also available in customized options as per customer requirements.

COMPLIANCE STANDARDS

IEC 60793, IEC 60794, EIA/TIA, ITU-T, Telcordia GR-20, EN187000.



Underground

Rodent Resistant

Water Resistant

UV Protected

OUTER JACKET CORRUGATED STEEL TAPE ARMOUR CORE WRAPPING TAPE CENTRAL STRENGTH MEMBER WB YARNS LOOSE TUBE (COLOURED FIBRES+GEL) RIP CORD



FIBRE COUNT	NUMBER OF FIBRE (RIBBON)	RIBBONS / TUBE	FIBRE'S / TUBE	NOMINAL CABLE DIAMETER (MM)	NOMINAL CABLE WEIGHT (KG/KM)	MAXIMUM TENSILE STRENGTH (N)
48F	6	2	12 (4)	13.7	165 ±20%	2500
72F	6	4	24 (3)	15.5	210 ±20%	2700
96F	6	4	24 (4)	15.5	210 ±20%	2700
144F	6	6	36 (4)	17.7	265 ±25%	2700
288F	6	6	36 (8)	20.5	365 ±25%	3500

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

NAME OF TEST	REFERENCE STANDARD	OFFERED VALUES		
Cable Bending Radius	IEC-60794-1-21-E11	Long term = 20D, Short term = 10D		
Crush Resistance (N/10 cm)	IEC-60794-1-21-E3	3000N		
Impact strength (N.m)	IEC-60794-1-21-E4	25		
Torsion	IEC-60794-1-21-E7	± 180°		
Temperature Cycling	IEC-60794-1-22-F1	Installation -20°C to +70°C	Operation -20°C to +70°C	Storage -20℃ to +70℃
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hours		
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hours no water leakage		

COLOUR CODING

FIBRE STANDARD COLOUR CODE



• If there are more 12 fibres per tube then single or double stripes marking will be offered in compliance to EIA/TIA

FIBRE STANDARD COLOUR CODE

1-Blue 2-Orange 3-Green 4-Brown 5-Grey 6-White 7-Red 8-Black 9-Yellow 10-Violet 11-Pink 12- Aqua

• If there are more than 12 tubes per cable then single or double stripes marking will be offered in compliance to EIA/TIA 598.

PRINTING DETAILS

• APAR INDIA ~Fibre Count~ Fibre Type~ OFC ~Laser Symbol~ Telephone Symbol~ Year of

Manufacturing~ Cable ID~ Meter Marking

• Customized marking available on request.

- Packing Length- 2Km, 4Km, 6Km (tolerance +/- 5%)
- Packing Material- Wooden Drum
- Customized drum lengths are available on request.



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