Telecom
Cabling Solutions

ELSEWEDY CABLES | **TELECOM**

ABOUT US

A global leader that has evolved from a local manufacturer of electrical products into an integrated infrastructure solutions provider; with over 18,000 employees and with recorded revenues of more than USD 4.8 billion in 2022. We Operate in five key business sectors: Wire, Cable & Accessories, Electrical Products, Engineering & Construction, Digital Solutions, and Infrastructure Investments. With a strong presence in 19 different countries, 31 production facilities spread across African and Asian countries including Egypt, Algeria, KSA, Qatar, Indonesia, Pakistan, and Tanzania. We export a wide range of high-end products to over 110 countries worldwide. At the heart of our approach is an all-in-one integrated Engineering, Procurement & Construction (EPC) service, enabling us to deliver the most complex turnkey projects on time and with the highest efficiency.

WE OPERATE IN FIVE KEY BUSINESS SECTORS

| WIRE, CABLE & ACCESSORIES | ELECTRICAL PRODUCTS | ENGINEERING & CONSTRUCTION | DIGITAL SOLUTIONS | INFRASTRUCTURE INVESTMENTS |

ELSEWEDY TELECOM CABLING SOLUTIONS

Elsewedy Telecom Cables, a subsidiary of Elsewedy Electric, manufactures and supplies end to end telecom infrastructure solution catering to various needs and applications, with the ability to manufacture multiple constructions based on the customer's needs. With a strong presence in the industry since 2008, Elsewedy Telecom Cables complete infrastructure telecom solution ensures seamless compatibility, guaranteeing enhanced performance and reduced system losses. Our products are type test certified as well as an ISO 17025 certified factory lab, allowing internal accredited type tests guaranteeing high quality product. Our new offering includes Copper & Fiber Cabling solutions, Racks & Cabinets and OPGW.

System Certificates

BASEC
- BS EN ISO 9001:2015

EURO CERT
- ISO 45001:2018
- EN ISO 14001:2015

ilac-MRA
- ISO/IEC 17025:2017

TÜV NORD
- ISO 14067

Product Certificates

UL
- Fiber Optic Cable Type Test

FORCE TECHNOLOGY / EC VERIFIED
- CAT6 Channel
- CAT6A Channel

ERC Energy Research Center Faculty of Engineering - Cairo Universit
- IP degree of protection : IP65
- IK rating : IK10

KINECTRICS
- OPGW AA/ACS 155/59 Type Test

COPPER CABLING SOLUTION

TELEPHONE CABLES

APPLICATION

Category 3 telephone cables used for voice frequencies.

USAGE

Indoor / Outdoor installation & interconnection
of transmission of telephone, telegraph & electronic equipment.

SPECIFICATIONS

Standards: IEC-189 & TC-113.
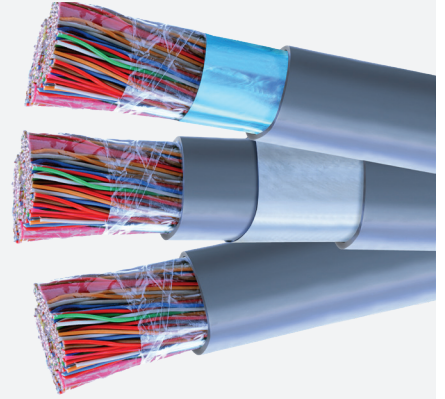
COAXIAL CABLES

APPLICATION

The full range of Coaxial cables are used for transmitting and
receiving high frequency signals in radio frequency devices and
connections.

CLASSIFICATION

Typically identified or classified according to its impedance or
RG-type (Radio Guide).

TYPES

- RG-8 (50-ohm)
- RG-59/U, RG-11/U, RG-6/U, C80, CF-160 (75 Ohm foamed PE)
- RG-58/U, RG-8/U (50 Ohm), RG-216 (75 Ohm solid PE)
- 75 Ω Coaxial Interconnection Cable 0.315/1.95
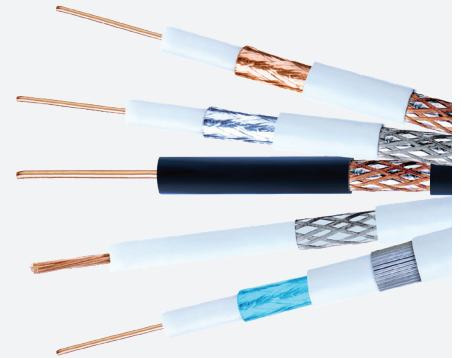
LAN CABLES

APPLICATION

LAN cables are used for data communications in local area networks for bandwidths up to 1600 MHz

TECHNICAL DATA
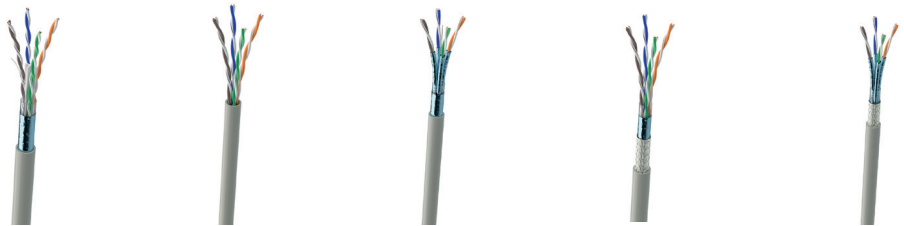
- 8 Pairs of colored coded twisted pairs
- Solid conductor sizes varies from 23:24 AWG
- Solid or Foamed PE insulation
- Shielded or unshielded configuration "individually or overall"
- PE, PVC, LSHF sheathed

	CAT 5E	CAT 6	CAT 6E	CAT 6A	CAT 7

APPLICATIONS

	CAT 5E	CAT 6	CAT 6E	CAT 6A	CAT 7
Phone Lines	✔	✔	✔	✘	✘
Home Network	✔	✔	✔	✘	✘
Office Network	✔	✔	✔	✔	✘
Data Center	✘	✘	✔	✔	✔

FEATURES & SPECIFICATIONS

	CAT 5E	CAT 6	CAT 6E	CAT 6A	CAT 7
Potential Bandwith (per se)	1000 Megabits	1000 Megabits	1000 Megabits	10,000 Megabits	10,000 Megabits
Time to Transfer 1 Terabyte	3 Hours	3 Hours	3 Hours	20 Minutes	20 Minutes
Data Transmission	1000 Base-T	1000 Base-TX	Exceeds 1000 Base-TX	10 GBase-T	Exceeds 10 GBase-T
Connector Type	RJ45 8P8C	RJ45 (4Cat6)	RJ45 (4 Cat6)	RJ45 (4 Cat6A)	GG45

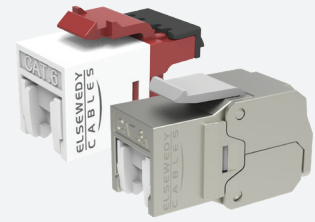|	CAT 5E	CAT 6	CAT 6E	CAT 6A	CAT 7
Frequency Range Minimum	0-100 MHZ	0-250 MHZ	0-250 MHZ	0-500 MHZ	0-600 MHZ
Performance Distance	328 Feet	328 Feet	328 Feet	328 Feet	328 Feet
Alt. Distance		10GB @ 180ft	10GB @ 180ft	RJ45 (4 Cat6A)	

SHIELDING CONFIGURATION:

- U/UTP
- U/FTP
- F/UTP
- S/UTP
- SF/UTP
- F/FTP
- S/FTP
- SF/FTP

COPPER CONNECTIVITY

CONNECTION MODULE

- IDC technology RJ-45 - Universal Keystone Jack
- Full range of performance (Cat5e-Cat6- Cat6A-Cat8.1)
- Both T-568A and T-568B with color code identification
- ANSI/TIA-568.2-D, ISO/IEC 11801-1, Class D/E/EA
- IEC 60603-7, IEC 60512-99-002, IEEE 802.3bt, 4PoE++

COPPER PATCH PANEL

- Rack mounted type rear cable management
- Full range of performance (Cat5e-Cat6- Cat6A)
- 19" high density loaded & unloaded patch panel
- Shielded and unshielded versions
- ANSI/TIA-568.2-D, ISO/IEC 11801
- IEC 60603-7, IEC 60512-99-002, IEEE 802.3bt, 4PoE++

PATCH CORD

- Both PVC and LSZH-FR jacket
- Full range of performance (Cat5e-Cat6- Cat6A-Cat8.1)
- Standard length 0,5 - 20m
- Indoor and outdoor application
- 4PPoE (IEEE802.3bt), IEC60512-99-002
- ANSI/TIA-568.2-D, ISO/IEC 1180
- Min. connection cycles std/type: 750

FACEPLATE

- Accommodates a variety of applications where RJ45 connections are present
- Easy snap-in installation
- Indoor and outdoor application
- Shuttered & unshuttered
- Available in US & UK style

CUSTOMIZED SOLUTIONS

- Custom pre-terminated cables
- Fits with multiple applications and environments
- Plug-and-Play installation
- 4PPoE (IEEE802.3bt), IEC60512-99-002
- ANSI/TIA-568.2-D, ISO/IEC 1180

FIBER OPTIC CABLING SOLUTION
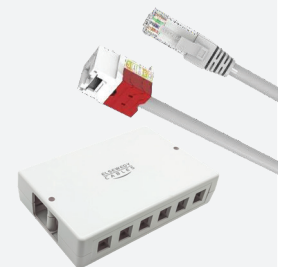
FIBER OPTIC CABLES

OUTDOOR

- Direct Buried Cables
- Duct Cables
- Air Blown Fiber (ABF) Cables
- Pre-Loaded Duct Cables
- All Dielectric Self Supporting (ADSS) Cables
- Figure 8 Cable

INDOOR & OUTDOOR

- Riser Cable
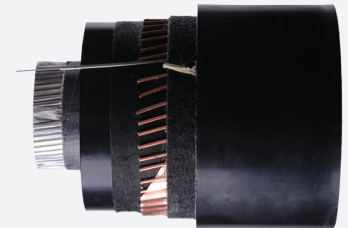- Distribution Fiber Cable

INDOOR

- FTTH Drop Cable
- Breakout Tight Buffer Cable
- Premises Distribution Cable

HYBRID CABLES

- Fiber & Power Hybrid Cable
- All in one – Fiber & LAN & Coaxial
- OPGWn type splitter.

ALL CABLE CONSTRUCTIONS ARE FULLY CUSTOMIZABLE AND AVAILABLE IN THE BELOW OPTIONS

Fiber Type: G.652D, G.657A1, G.657A2, G.655, OM3, OM4, OM5

Jacket Type: Single/Double/Triple Jacket Layer, HDPE, PVC, LSZH, Polyamide

Armoring: Corrugated Steel Tape, Steel wire, Glass Roving Yarn, Aramid Yarn

FIBER CONNECTIVITY

FIBER PATCH PANEL (UP TO 288 FIBERS)

- Available in both single and multimode optical fiber
- Fits all standard 19-inch racks with cable management
- Various adapter types, SC, LC, MTP/MPO
- Provides sufficient bend radius for the patch cords
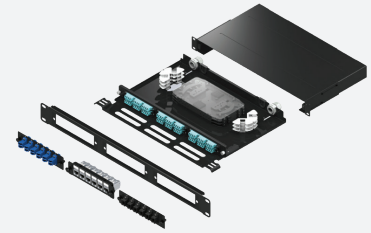
FIBER PATCH CORD AND PIGTAILS

- Available in both single and multimode optical fiber
- Various adapter types: SC - LC
- LSZH-FR Jacket
- Complies with IEC60793-2-10, ANSI/TIA-492CAAC & TIA/EIZ-604-10, 604-3, 604-4 standards
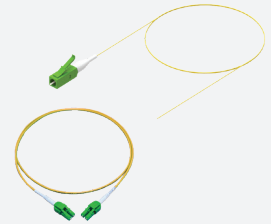
FIBER OPTIC SPLITTER

- Low insertion loss and high uniformity
- Available in both LC/APC & SC/APC connectors
- Available in rack mounted, ABS module and pin type splitter

FIBER TERMINATION BOX & OUTLET

- For both indoor and outdoor applications
- ABS+PC/ ABS material used ensures product's rigidity & light weight
- Supports various adapter types, such as SC, LC
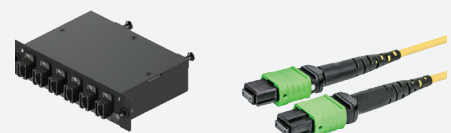- IP65 / IP67 protection level

FIBER OPTIC CLOSURES

- Dome and inline type are available
- Excellent waterproof design
- Screw mechanical sealing
- Wide range of splice capacity up to 576
- IP68 protection level

CUSTOMIZED SOLUTIONS

- Custom pre-terminated cables
- Pre-connectorized cable
- Space optimization

RACK & CABINETS

INDOOR RACKS

- **WALL MOUNT RACKS**
- **FREE STANDING RACKS**
- **OPEN FRAME RACKS**
- **ONT FLUSH MOUNT RACKS**
- **SLIM WALL MOUNT RACKS**

FEATURES

- Loading capacity: ranging from 80Kg up to 1500Kg according to design
- Height Options: Wall mount from 6U up to 20U / Free standing from 12U Up to 48U
- Width Options: 600mm and 800mm
- Depth Options: 450mm, 600mm, 800mm ,1000 & 1200 mm
- Electrostatic painting
- Color options available RAL 9005 Smooth Black and RAL 7035, Smooth Light Grey, customized upon request.

OUTOOR CABINETS

- **WALL / POLE MOUNT CABINETS**
- **FREE STANDING OUTDOOR RACKS**
- **TELECOM STREET CABINETS**

FEATURES

- Available with smart lock optionally
- Electrostatic outdoor painting
- RAL 7035 light gray
- Material options: High quality galvanized steel sheets, stainless steel and aluminum
- Protection Rate: IP55, IP65 and IP66 upon request
- Height Options: Wall mount from 6U up to 20U / free standing up to 42 U/ street cabinets available in 14U, 22U & 28 U

OPGW

APPLICATION

- These conductors are suitable for installation as optical ground wire in power line installations
- They act as normal ground wire protecting phase wires from lighting strikes and carries earth fault currents
- The conductors provide also an optic path in power line installations for telecommunication needs

FEATURES

- Installation in the same way as normal ground wire with conventional machinery
- Most reliable optic solution for fiber optic utilities
- Best solution in old ground wire replacement and in new line constructions
- Low cost

CONSTRUCTION TYPES

- Single Stranding Layers, Central SST OPGW
- Single Stranding Layers, Central ACST OPGW
- Single Stranding Layers, Central AT OPGW
- Double Stranding Layers, Central SST OPGW
- Double Stranding Layers, Central ACST OPGW
- Double Stranding Layers, Central AT OPGW
- Double Stranding Layers, Lateral Position SST / ACST OPGW

SST: STAINLESS STEEL TUBE

ACST: ALUMINUM COATED STAINLESS STEEL TUBE

AT: ALUMINUM TUBE

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