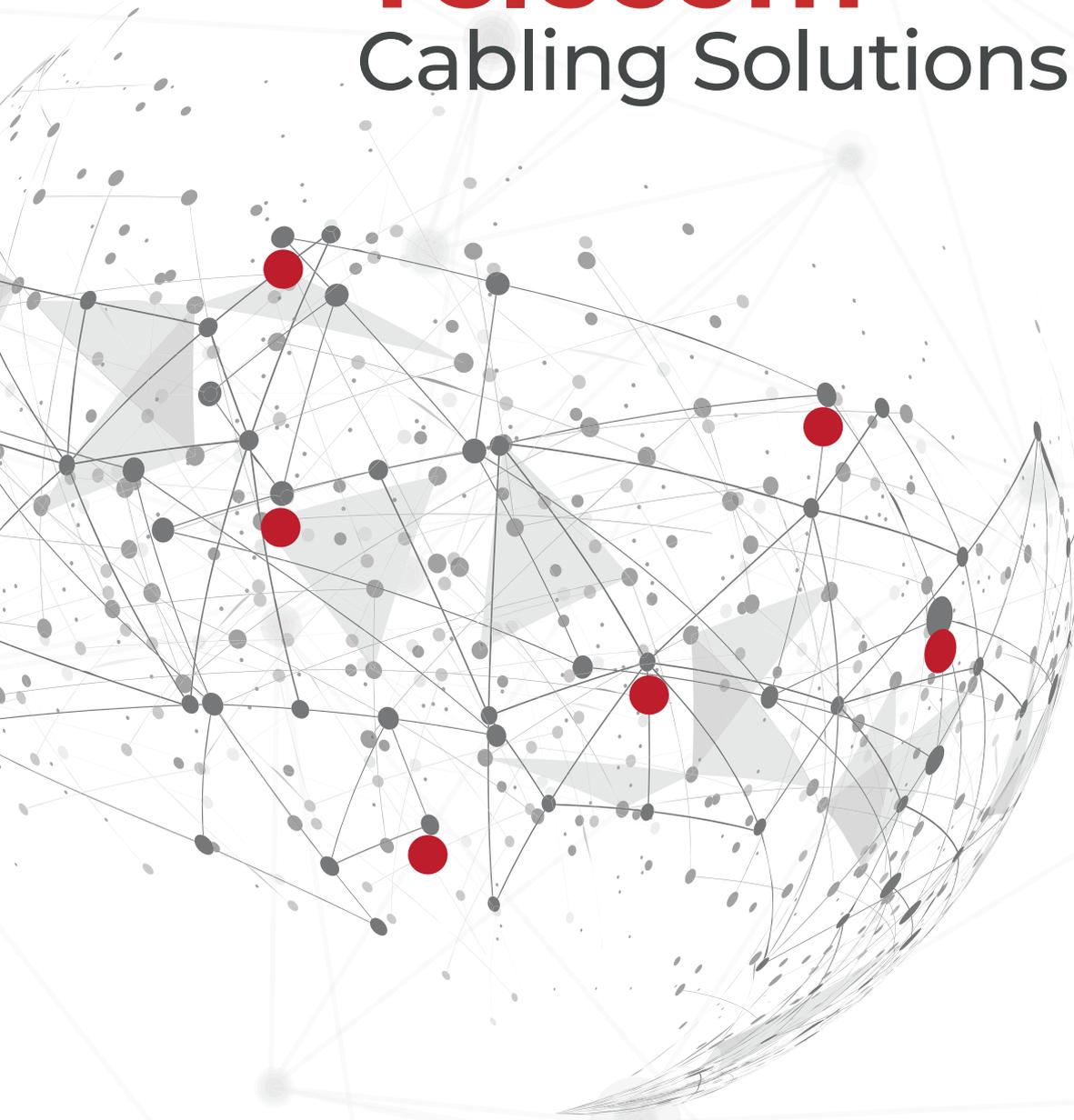


Telecom

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 19,000 employees and with recorded revenues of more than USD 5 billion in 2023. 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



ELSEWEDY TELECOM CABLING SOLUTIONS

Elsowedy Telecom Cables, a subsidiary of Elsowedy 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, Elsowedy 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



BS EN ISO 9001:2015



ISO 45001:2018
EN ISO 14001:2015



ISO/IEC 17025:2017



ISO 14067

PRODUCT CERTIFICATES



Fiber Optic Cable
Type Test



CAT6 Channel
CAT6A Channel



IP Degree of Protection: IP65
IK Rating: IK10



OPGW AA/ACS 155/59
Type Test

COPPER CABLING SOLUTION

COAXIAL CABLES

FEATURES

- **RG58/59:** Thin, flexible, short-distance.
- **RG6:** Thin, flexible, easy routing, moderate distances.
- **RG8/213:** Thick, robust, low signal loss, long distances.
- **RG11:** Lowest signal loss, very long distances, less flexible.
- **C80:** Moderate durability, moderate distances.
- **C160:** Higher durability, moderate distances.

TECHNICAL SPECIFICATIONS

Conductor Sizes:

- **Solid Copper Wire:** RG-58: 0.9mm - RG-59: 0.59mm - RG-6/C-80/CF-160: 1.0mm - RG-11: 1.63mm - RG-213 : 2.25mm
- **Stranded Copper Wire:** RG-8: 2.22mm

SHEATHING: Available in PVC or LSZH jackets - **BRAIDING OPTIONS:** Bare / Tinned Cu or AL with different coverage percentages
OTHER TYPES: C80, CF-160 (75 Ohm foamed PE)



RG-58

RG-59

RG-6

RG-8

RG-11

RG-213

C-80

CF-160

APPLICATIONS

Thin Ethernet (10BASE2)	✓	—	—	—	—	—	—	—
CCTV / Satellite / CATV	—	✓	✓	—	—	—	✓	✓
Ham Radio	✓	—	—	—	—	—	—	—
Wi-Fi Antenna Connections	✓	—	—	—	—	—	—	—
Short CB Radio Antennas	✓	—	—	—	—	—	—	—
Thick Ethernet (10BASE5)	—	—	—	✓	—	—	—	—
RF Transmissions / Long-Distance Applications	—	—	—	✓	✓	—	—	—

TELEPHONE CABLES

APPLICATION

Category 3 telephone cables used for voice frequencies.

USAGE

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

SPECIFICATIONS

Standards: IEC-189 & TC-113.



COPPER CABLING SOLUTION

LAN CABLES

APPLICATION

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

TECHNICAL DATA

- ✓ 4 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

Phone Lines	✓	✓	✓	—	—
Home Network	✓	✓	✓	—	—
Office Network	✓	✓	✓	✓	—
Data Center	—	—	✓	✓	✓

FEATURES & SPECIFICATIONS

Potential Bandwidth (per se)	1,000 Megabits	1,000 Megabits	1,000 Megabits	10,000 Megabits	10,000 Megabits
Time to Transfer 1 Terabyte	3 Hours	3 Hours	3 Hours	20 Minutes	20 Minutes
Data Transmission	1,000 Base-T	1,000 Base-TX	Exceeds 1,000 Base-TX	10 GBase-T	Exceeds 10 GBase-T
Connector Type	RJ45 8P8C	RJ45 (4Cat6)	RJ45 (4 Cat6)	RJ45 (4 Cat6A)	GG45

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 CABLING SOLUTION



COPPER CONNECTIVITY

CONNECTION MODULE

- ✓ IDC technology RJ45 (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 applications
- ✓ 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 applications
- ✓ Shuttered & unshuttered
- ✓ Available in both 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 CABLING SOLUTION



FIBER OPTIC CABLES

OUTDOOR CABLES

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



INDOOR & OUTDOOR CABLES

- ✓ Riser Cables
- ✓ Distribution Fiber Cables



INDOOR CABLES

- ✓ FTTH Drop Cables
- ✓ Breakout Tight Buffer Cables
- ✓ Premises Distribution Cables



HYBRID CABLES

- ✓ Fiber & Power Hybrid Cables
- ✓ All in One Cables (Fiber, LAN, Coaxial & Power)



**ALL CABLE CONSTRUCTIONS ARE FULLY CUSTOMIZABLE & 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 CABLING SOLUTION

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 & 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 types 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 cables
- ✓ Space optimization



RACK & CABINETS

INDOOR RACKS

- Wall Mounted
- Free Standing
- Open Frame
- ONT Flush Mounted
- SLIM Wall Mounted



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 & 800mm
- ✓ Depth options: 450mm, 600mm, 800mm, 1000 & 1200 mm
- ✓ Electrostatic painting
- ✓ Color options available: RAL 9005 Smooth Black and RAL 7035, Smooth Light Grey or customized upon customer's request

OUTDOOR CABINETS

- Wall / Pole mounted
- Free Standing
- Telecom Street Cabinets



FEATURES

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

OPGW

APPLICATION

- ✔ Suitable for installation as optical ground wire in power line installations.
- ✔ Act as normal ground wires and protecting phase wires from lighting strikes & carries earth fault currents.
- ✔ Provides optic path in power line installations for telecommunication needs.

FEATURES

- ✔ Same installation process as normal ground wire with conventional machinery.
- ✔ The most reliable optic solution for fiber optic utilities.
- ✔ The best low-cost solution for replacing old ground wires & constructing new lines.

CONSTRUCTION TYPES

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

SST: STAINLESS STEEL TUBE

ACST: ALUMINUM COATED STAINLESS STEEL TUBE

AT: ALUMINUM TUBE



ELSEWEDY
CABLES | **TELECOM**



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