

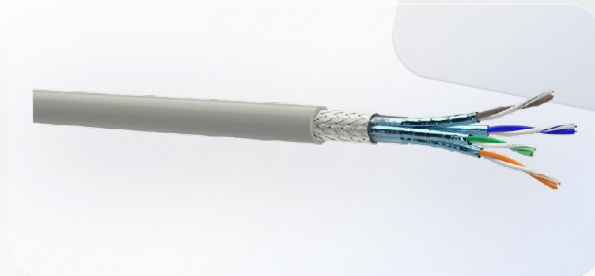
CATEGORY 7 / PVC SHEATH

CAT 7 S/FTP Cable

Individually Screened, Overall Braided — PVC Sheath

JACKET / SHEATH

PVC • Grey



— CABLE APPLICATION

- Structured cable for campus, riser, and horizontal installation, in conditions of heightened electromagnetic impacts.
- Operated on frequencies up to 600 MHz.
- Compatible with all known connection systems according to EN 50173.
- Typical applications include PBX, V.11, X.21, ISDN, Ethernet (10Base-T), ATM-25/52/155 Mbit/s, 100VG-AnyLAN, Fast Ethernet (100BASE-TX), Token Ring 16/100 Mbit/s, Firewire 100 Mbit/s, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, 10GBASE-T, HDBaseT, PoE, PoE+, PoE++.

— CABLE CONSTRUCTION

- 1 Solid Bare Copper
- 2 Skin-Foam-Skin HDPE Insulation
- 3 AL/PET Foil (Individual Pair Shield)
- 4 Tinned Copper Wire Braid (Overall Screen)
- 5 PVC Outer Sheath

— CONSTRUCTION & DIMENSIONS

#	CABLE ELEMENT	CONSTRUCTION & DIMENSIONS
01	Conductor	Solid Bare Copper
02	Insulator Material	Skin-Foam-Skin HDPE
03	Individual Pair Shielding	AL/PET Foil, Metal Outside
04	Overall Screen	Tinned Copper Wire Braid
05	Sheath Material	PVC
06	Sheath Colour	Grey (PVC) — other colours available on request
07	Number of Twisted Pairs	4
08	Conductor Size	23 AWG
09	Drain Wire Size	26 AWG
10	Braid Coverage	40%
11	Outside Diameter of Sheath	7.4 mm

ELSEWEDY TELECOM CABLES A.R.E.

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— CABLE PROPERTIES

Min. Installation Bend Radius	8 × D
Min. Installed Bend Radius	4 × D
Maximum Installation Tension	110 N
Installation Operating Temp. Range	0 to 50 °C
(Installed) Operating Temp. Range	-20 to 60 °C

— ELECTRICAL CHARACTERISTICS @ 20 °C

PROPERTY	VALUE	UNIT
Characteristic Impedance @ 100MHz	100 ± 5	Ω
DC Conductor Resistance	75	Ω/km
Insulation Resistance	≥ 5	GΩ/km
Max. Resistance Unbalance	≤ 2	%
Max Capacitance	42	pF/m
Capacitance Unbalance	1600	pF/km
Nominal Velocity of Propagation	80	%
Propagation Delay	430	ns/100m

— APPLICABLE STANDARDS

CABLE & CABLING STANDARDS

ISO/IEC 11801-1, EN 50173-1, EN 50288-6-1, ANSI/TIA/EIA-568.2-D and IEC 61156-5

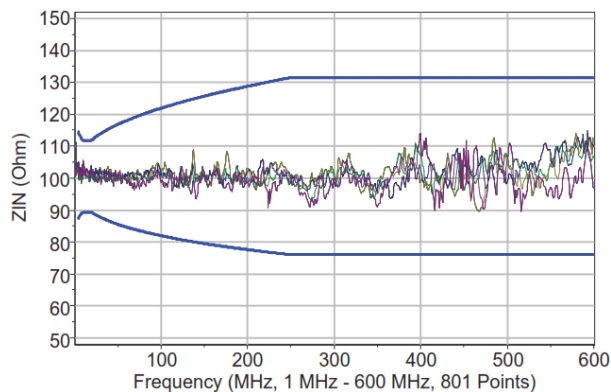
FIRE PROPAGATION TEST

IEC 60332.1; EN 50265-2-1 Class B

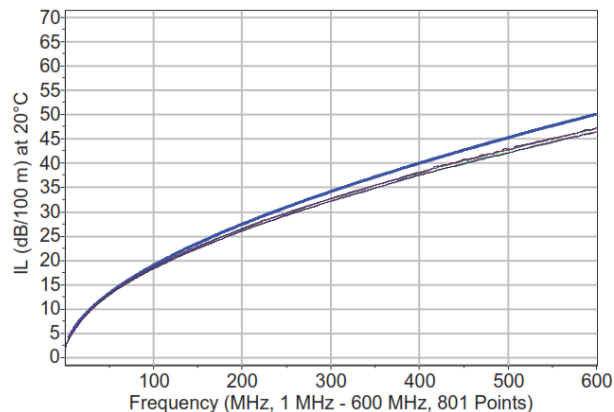
— PACKING

- Cable shall be supplied on plywood drums.
- Length per drum: 500 m.

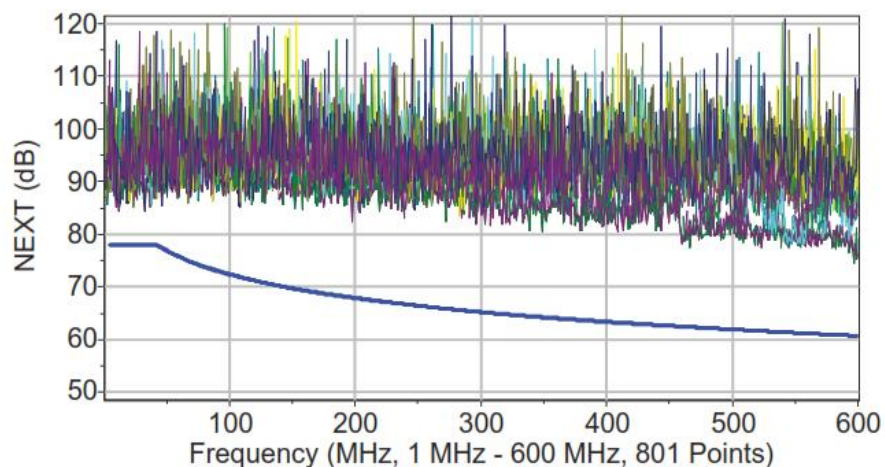
— MEASURED TRANSMISSION PERFORMANCE



Input Impedance [Ω] — 1–600 MHz, 801 Points



Insertion Loss (Attenuation) [dB/100m] at 20°C



Near-End Crosstalk (NEXT) [dB] — 1–600 MHz, 801 Points

Engineered for performance. Built for permanence.

Elsewedy Telecom Cables — structured cabling manufactured to ISO/IEC 11801-1 and ANSI/TIA/EIA-568.2-D standards.