

STRUCTURE CABLING

LAN CABLE

S/FTP Shielded CAT 7 Twisted Pair Installation Cable



Standard

- IEC/ISO 61158-5
- ISO/IEC 11801

Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class F applications.
- ISDN, Ethernet 10 Base-T, Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T, 10G Base-T, (IEEE 802.3).
- Token Ring 4/16Mbit/s, TP-PMD/TP/DDI 125Mbit/s, ATM 155Mbit/s, (IEEE 802.5).

Electrical Characteristics

- Impedance: 4 - 100MHz 100±15 (ohms),
100 - 200MHz 100±22 (ohms),
200 - 600MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20°C: 8.4(ohms/100m).
- Resistance unbalance (%): max 2.5.
- Pair-to-Ground Capacitance Unbalance: 330 (pF/100m).
- Transfer Impedance: Max 10 mohms/m@100MHz.
- Coupling Attenuation: Min 80 dB.
- Installation temperature: 0~50°C.
- Operation temperature: >20~60°C.

Nominal Transmission Characteristics

Frequency	RL (min)	RL(max)	Propagation Delay(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ELNEXT (min)	PSELNEXT (min)
(MHz)±	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
4	23.0	3.7	552	25	78.0	75.0	78.0	75.0
8	24.5	5.2	547	25	78.0	75.0	77.2	74.2
10	25.0	5.9	545	25	78.0	75.0	75.3	72.3
16	25.0	7.4	543	25	78.0	75.0	71.2	68.2
20	25.0	8.3	542	25	78.0	75.0	69.3	66.3
25	24.3	9.3	541	25	78.0	75.0	67.3	64.3
31.25	23.6	10.4	540	25	78.0	75.0	65.4	62.4
62.5	21.5	14.9	539	25	75.5	72.5	59.4	56.4
100	20.1	19.0	538	25	72.4	69.4	55.3	52.3
200	18.0	27.5	537	25	67.9	64.9	49.3	46.3
250	17.3	31.0	536	25	66.4	63.4	47.3	44.3
300	17.3	34.2	536	25	65.2	62.2	45.8	42.8
400	17.3	40.0	536	25	63.4	60.4	43.3	40.3
500	17.3	45.3	536	25	61.9	58.9	41.3	38.3
600	17.3	50.1	535	25	60.7	57.7	39.7	36.7

Conductor
Al-mylar Foil
Braid
Insulation(skin-foam-skin)
Jacket
Rip Cord



Conductor

Conductor	Solid Bare Copper 23AWG
Insulation	PE(Skin-Foam-Skin)
Total number of insulated conductors	8, twisted in 4 pairs
Color code	blue x white, orange x white, green x white, brown x white
Individual pair shield	aluminum foil, providing 100% coverage, foil face out
Overall shield	Tinned copper braid
Drain wire	None

Order information

Item	Outer Jacket	Overall diameter(mm)
D275-P	CMX	(8.5+8.5)±0.3
D275-C	CM	(8.5+8.5)±0.3
D275-R	CMR	(8.5+8.5)±0.3
D275-L	LSZH	(8.5+8.5)±0.3
D275-E	LDPE	(8.5+8.5)±0.3

Note: The above transmission performance for the 100M, 20 ± 2°C under the conditions tested.