

# STRUCTURE CABLING

## LAN CABLE

### F/FTP Shielded CAT6A Twisted Pair Installation Cable



#### Standard

- IEC/ISO 61156-5
- ANSI/TIA568C.2
- ISO/IEC 11801

#### Application

- Suitable for structured premises cabling.
- For transmission of digital and analogue voice and data signals.
- Especially suitable for all Class EA applications.
- ISDN, Ethernet 10 Base-T, Fast Ethernet 100 Base-T, Gigabit Ethernet 1000Base-T, 10G Base-T, (IEEE 802.3).
- Token Ring4/16Mbit/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 - 500MHz 100±32 (ohms).
- Max. Conductor DC Resistance 20°C: 8.7(ohms/100m).
- Resistance unbalance (%): max 2.5.
- Pair-to-Ground Capacitance Unbalance 330 (pF/100m).
- Transfer Impedance: Max10 mohms/m@100MHz.
- Installation temperature: 0~50°C.
- Operation temperature: -20~60°C.

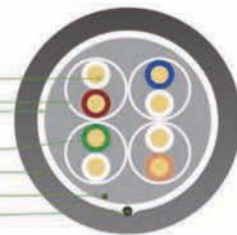
#### Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	Propagation Delay(max)	Delay Skew (max)	NEXT (min)	PSNEXT (min)	ACR-F (min)	PSACR-F (min)
(MHz)	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.1	570	45	74.3	72.3	67.8	64.8
4	23.0	3.8	552	45	65.3	63.3	55.8	52.8
10	25.0	5.9	545	45	59.3	57.3	47.8	44.8
16	25.0	7.5	543	45	56.2	54.2	43.7	40.7
20	25.0	8.4	542	45	54.8	52.8	41.8	38.8
31.25	23.6	10.5	540	45	51.9	49.9	37.9	34.9
62.5	21.5	15.0	539	45	47.4	45.4	31.9	28.9
100	20.1	19.1	538	45	44.3	42.3	27.8	24.8
200	18.0	27.6	537	45	39.8	37.8	21.8	18.8
300	17.3	34.3	536	45	37.1	35.1	18.3	15.3
400	17.3	40.1	536	45	35.3	33.3	15.8	12.8
500	17.3	45.3	536	45	33.8	31.8	13.8	10.8

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

Conductor  
Al-mylar Foil

Insulation(skin-foam-skin)  
Jacket  
Drain Wire  
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	Tinned copper

#### Order information

Item	Outer Jacket	Overall diameter(mm)
D245-P	CMX	8.0±0.3
D245-C	CM	8.0±0.3
D245-R	CMR	8.0±0.3
D245-L	LSZH	8.0±0.3
D245-E	LDPE	8.0±0.3