

# STRUCTURE CABLING

## LAN CABLE

### F/UTP steel wire support shielded CAT5e Twisted Pair Installation Cable



#### Application

- Exceeds ANSI/TIA-568-C.2 and ISO 11801 2nd Edition Class D Category 5e channel standards.
- Exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 5e component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Foil shield reduces ingress of EMI interference to ensure cable performance at high frequency levels.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Color Availability: Additional cable colors available.

#### Electrical Characteristics

- Impedance: 1-100MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 9.5(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ\*Km.
- Dielectric strength: DC 2500V 2S.

#### Nominal Transmission Characteristics

Frequency	RL (min)	IL(max)	DOP(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	2.2	570	45	65	62	61	61
4	23.0	4.2	552	45	56	53	48	48
10	25.0	6.5	545	45	50	47	41	41
16	25.0	8.4	543	45	47	44	36	36
20	25.0	9.3	542	45	45	42	34	34
31.25	23.6	11.6	540	45	42	39	31	31
62.5	21.5	17.0	538	45	38	35	25	25
100	20.1	22.0	537	45	35	32	21	21

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

#### PET

- Copper Conductor
- HDPE Insulation
- Aluminum Foil
- Jacket
- Drain Wire
- Rip Cord



#### Conductor

Conductor	Solid Bare Copper 24AWG
Insulation	HDPE
Total number of insulated conductors	8, twisted in 4 pairs
Color code	White-Blue/Blue, White-Orange/Orange White-Green/Green, White-Brown/Brown
Individual pair shield	None
Overall shield	Aluminum foil, providing 100% coverage, foil face out.
Drain wire	None

#### Order information

Item	Outer Jacket	Overall diameter(mm)
D235-P	CMX	(6.3+2.3)±0.3
D235-C	CM	(6.3+2.3)±0.3
D235-R	CMR	(6.3+2.3)±0.3
D235-L	LSZH	(6.3+2.3)±0.3
D235-E	LDPE	(6.3+2.3)±0.3