

STRUCTURE CABLING

LAN CABLE

F/FTP Shielded CAT7



Standard

-IEC/ISO 61156-5
-ISO/IEC 11801
-EN50288

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/155Mbps, TP-PMD/TP/DDI 125Mbps, ATM 155Mbps (IEEE 802.5).

Electrical Characteristics

-Impedance 4-100MHz 100 ± 15 (ohms).
100-200MHz 100 ± 20 (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 mch/m @ 100MHz.
-Coupling Attenuation Min 80 dB.
-Installation temperature 0-50°C
-Operation temperature -20-60°C

Conductor

Conductor	Solid Bare Copper 23AWG
Insulation	PE (Skin Foam-Skin)
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	Yes
Overall shield	aluminum foil
Drain wire	Tinned copper

Order information

Item	Outer Jacket	Overall diameter (mm)
XF-FF-07-01	CMX	7.6±0.3
XF-FF-07-02	CM	7.6±0.3
XF-FF-07-03	CMR	7.6±0.3
XF-FF-07-04	LSZH	7.6±0.3
XF-FF-07-05	LDPE	7.6±0.3
XF-FF-07-06	PVC	7.6±0.3

Nominal Transmission Characteristics

Frequency (MHz)	RL (Min) (dB)	IL (Max) (dB/100m)	Propagation Delay (ns/100m)	Skew (ns/100m)	NEXT (Min) (dB)	PSNEXT (Min) (dB)	ELNEXT (Min) (dB/100m)	PSENXT (Min) (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	21.6	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

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