

F/UTP Shielded CAT.5E EXTERIOR 24AWG 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

- Bandwidth: 100 MHz
- Transmission Speed: 100mps
- Shielded: Wire and aluminium
- Jacket: De Outside foil
- 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: $>5000\text{M}\Omega \cdot \text{Km}$.
- Dielectric strength: DC 2500V 2S.

PET

Copper Conductor

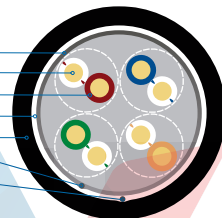
HDPE Insulation

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)
D145-P	CMX	6.3±0.2
D145-C	CM	6.3±0.2
D145-R	CMR	6.3±0.2
D145-L	LSZH	6.3±0.2
D145-E	LDPE	6.3±0.2

Nominal Transmission Characteristics

Frequency (MHz)	RL (min) (dB)	IL(max) (dB/100m)	DOP(max) (ns/100m)	Delay Skew (max) (ns/100m)	NEXT (min) (dB)	PSNEXT (min) (dB)	ACR-F (min) (dB/100m)	PSACR-F (min) (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.

TEST REPORT



Cable ID: U/UTP CAT.6 MWA

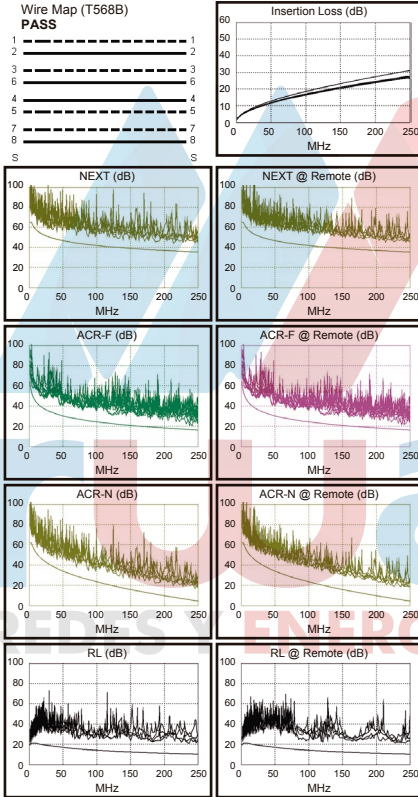
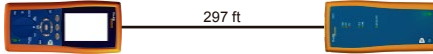
Date / Time: 04/01/2020 08:53:51 AM
Headroom 6.0 dB (NEXT 45-78)
Test Limit: TIA Cat 6 Perm. Link
 Cable Type: Cat 6 U/UTP - 7 - 0,20mm
 NVP: 69.0%

Operator: Your Name
 Software Version: 2.7800
 Limits Version: 1.9500
 Calibration Date:
 Main (Tester): 04/01/2020
 Remote (Tester): 04/01/2020

Test Summary: PASS

Model: DSX-5000
 Main S/N: 9391107
 Remote S/N: 9391108
 Main Adapter: DSX-PLA002
 Remote Adapter: DSX-PLA002

Length (ft), Limit 295	[Pair 78]	297
Prop. Delay (ns), Limit 498	[Pair 45]	463
Delay Skew (ns), Limit 44	[Pair 45]	26
Resistance (ohms)	[Pair 45]	13.7
Insertion Loss Margin (dB)	[Pair 36]	3.1
Frequency (MHz)	[Pair 36]	246.0
Limit (dB)	[Pair 36]	30.8



	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	45-78	12-45	36-78	12-45
NEXT (dB)	6.0	8.6	8.0	8.6
Freq. (MHz)	11.9	214.0	238.5	214.0
Limit (dB)	56.7	36.4	35.7	36.4
Worst Pair	78	45	36	45
PS NEXT (dB)	6.6	8.4	7.9	8.4
Freq. (MHz)	11.9	214.0	245.0	214.0
Limit (dB)	54.3	33.8	32.9	33.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	36-12	12-36	36-12
ACR-F (dB)	3.4	4.7	3.4	4.7
Freq. (MHz)	241.0	237.5	241.0	241.0
Limit (dB)	16.5	16.7	16.5	16.5
Worst Pair	36	12	36	12
PS ACR-F (dB)	6.1	6.1	6.1	6.1
Freq. (MHz)	241.0	241.0	241.0	241.0
Limit (dB)	13.5	13.5	13.5	13.5

N/A	MAIN	SR	MAIN	SR
Worst Pair	45-78	45-78	12-36	12-45
ACR-N (dB)	6.5	9.3	11.6	13.5
Freq. (MHz)	11.9	2.6	245.0	250.0
Limit (dB)	50.6	62.0	4.7	4.2
Worst Pair	78	45	36	45
PS ACR-N (dB)	7.1	9.4	11.2	12.7
Freq. (MHz)	11.9	14.4	245.0	241.0
Limit (dB)	48.2	46.3	2.1	2.5

PASS	MAIN	SR	MAIN	SR
Worst Pair	12	12	78	78
RL (dB)	4.7	6.7	10.3	10.3
Freq. (MHz)	3.6	3.6	236.5	229.0
Limit (dB)	21.0	21.0	10.3	10.4

Compliant Network Standards:
 10BASE-T 100BASE-TX 100BASE-T4
 100BASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive

FLUKE networks.

