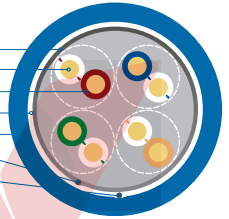


U/UTP Unshielded CAT.5E Flexible - Multiwire Twisted Pair Installation Cable



Application

- Meets or exceeds requirements of ANSI/TIA-568-C.2 Category 6 and ISO 11801 2nd Edition Class E channel standards.
- Meets or exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 6 component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Third party tested to comply with ANSI/TIA/EIA-568-C.2.
- 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: 100MHz
- Transmission Speed: 100mps
- Jacket: Flex
- Impedance: 1-250MHz 100±15(Ohms).
- Rated Temperature: 75°C.
- DC Resistance Unbalance(%): Max 2.5.
- DC Resistance 20°C: 8.4(Ohms/100m).
- Pair-to-Ground Capacitance Unbalance: 330(pF/100M).
- Insulation Resistance: >5000MΩ*Km.
- Dielectric strength: DC 2500V 2S.

PET

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

Conductor

Conductor	7-0,19mm
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	None
Drain wire	None

Order information

Item	Outer Jacket	Overall diameter(mm)
D165-P	CMX	6.4±0.2
D165-C	CM	6.4±0.2
D165-R	CMR	6.4±0.2
D165-L	LSZH	6.4±0.2
D165-E	LDPE	6.4±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	570	45	74	72	67.8	64.8
4	23.0	3.8	552	45	65	63	55.7	52.7
10	25.0	6.0	545	45	59	57	47.8	44.8
16	25.0	7.6	543	45	56	54	43.7	40.7
20	25.0	8.5	542	45	55	53	41.7	38.7
31.25	23.6	10.7	540	45	52	50	37.9	34.9
62.5	21.5	15.4	538	45	47	45	31.8	28.8
100	20.1	19.8	537	45	44.3	42.3	27.8	24.8
200	18.0	29.0	536	45	39.7	37.7	21.7	18.7
250	17.3	32.8	535	45	38	36	19.8	16.8

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

TEST REPORT



Cable ID: U/UTPCAT5EMWA

Test Summary: PASS

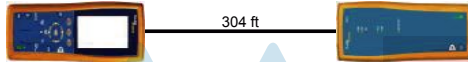
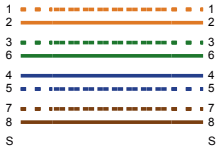
Date / Time: 04/01/2020 04:35:31pm
 Headroom: 2.2 dB (NEXT 36-78)
 Test Limit: TIA Cat 5e Channel
 Cable Type: Cat 5e UTP - 7-0,19mm

Operator: MR ZHU
 Software Version: 2.5200
 Limits Version: 1.7000
 NVP: 69.0%

Model: DSX-5000
 Main S/N: 9439023
 Remote S/N: 9439024
 Main Adapter: DSX-CHA001
 Remote Adapter: DSX-CHA001

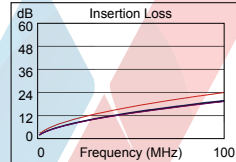
Wire Map (T568B)

PASS

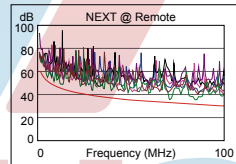
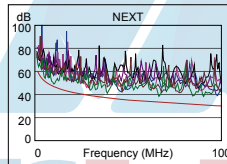


Length (ft), Limit 328 [Pair 78] 304
 Prop. Delay (ns), Limit 555 459
 Delay Skew (ns), Limit 50 11
 Resistance (ohms) [Pair 12] 16.8

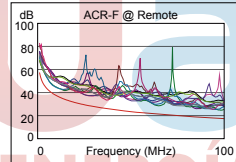
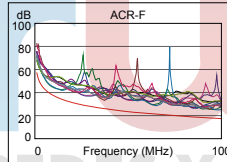
Insertion Loss Margin (dB) [Pair 12] 4.1
 Frequency (MHz) [Pair 12] 100.0
 Limit (dB) [Pair 12] 24.0



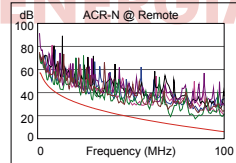
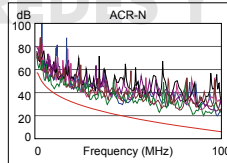
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	36-78	36-78	36-78	36-78
NEXT (dB)	2.2	2.5	6.5	3.1
Freq. (MHz)	10.3	71.0	85.0	84.8
Limit (dB)	46.8	32.6	31.3	31.3
Worst Pair	36	36	36	78
PS NEXT (dB)	4.3	5.0	10.0	5.4
Freq. (MHz)	10.3	5.0	97.8	84.8
Limit (dB)	43.8	49.0	27.2	28.3



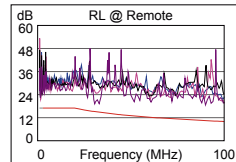
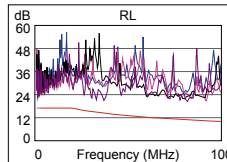
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	36-45	45-36	45-36	36-45
ACR-F (dB)	6.7	6.8	7.3	7.1
Freq. (MHz)	8.1	8.1	98.0	98.0
Limit (dB)	39.2	39.2	17.6	17.6
Worst Pair	36	36	36	36
PS ACR-F (dB)	7.5	6.5	8.1	6.5
Freq. (MHz)	87.3	93.8	100.0	93.8
Limit (dB)	15.6	15.0	14.4	15.0



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
N/A				
Worst Pair	36-78	36-78	12-36	36-78
ACR-N (dB)	3.8	4.4	13.3	7.4
Freq. (MHz)	10.4	5.0	97.8	84.8
Limit (dB)	39.5	47.0	6.5	9.4
Worst Pair	36	36	36	78
PS ACR-N (dB)	5.9	6.2	14.5	9.7
Freq. (MHz)	5.3	5.0	97.8	84.8
Limit (dB)	43.5	44.0	3.5	6.4



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	78	78	78	78
RL (dB)	6.5	4.1	9.5	8.1
Freq. (MHz)	33.0	30.5	81.5	90.0
Limit (dB)	14.8	15.2	10.9	10.5



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

