CAT5E FTP/Outdoor/UV Rated/Shielded with Messenger Cable

Item # DC-1023

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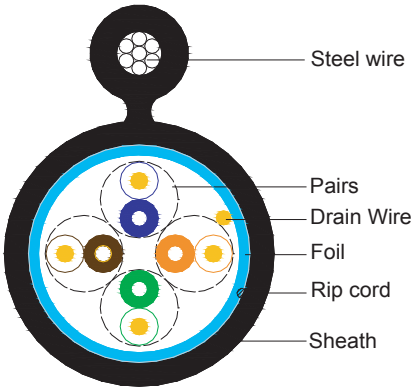
Cross Section



Electrical Characteristics(20°C)

Standard: ANSI/TIA/EIA-568-B.2 & IEC/ISO 11801

Test Item	Units	Spec
1. Conductor D.C. Resistance	Ω/100m	≤9.5
2. Unbalance of Pair DC Resistance	%	≤2.5
3. Dielectric Strength between Pairs	kV/min	≤1.0
4. Insulation Resistance	MΩ-km	≥5000
5. Capacitance	nF/100m	≤5.6
6. Unbalance of Capacitance	pF/100m	≤330
7. Characteristic Impedance(1 to 100MHz)	Ω	100±15
(100 to 200MHz)	Ω	100±25
(200 to 350MHz)	Ω	100±35
8. Short or Open of the loop	—	None
9. Shield	—	Continue

Cable Description

1)Conductor

Pairs	4
Total Conductor	8
AWG	24
Dia. of Conductor	Φ 0.50±0.01mm
Material	Solid Bare Copper
Elongation	≥15%

2)Insulation:

Material	HDPE - Polyethylene
Nom. Thickness	0.24mm
Dia.	Φ 0.95±0.05mm
Elongation	≥300%
Color Cord	White/Blue & Blue

3)Mylar Tape: .03 x 18mm

4)Shielding:

Vertical Wrap	Al-Mylar Tape 0.055×18mm
Coverage %	100%
AWG	24
Drain Wire	TC - Solid Tinned Copper

5)Sheath:

Material	Outer: LDPE
Rip Cord	200D×3
Nom. Thickness	0.75±0.05mm
O.D.	Φ 6.50±0.3mm
Color	Black

3)Paired:

Length of Lay	< 30 mm

4)Cabling:

Order of the pair	See the Cross Section
Mylar Tape	0.03×18mm

6)Messenger:

Material	Stranded Steel Wire
Dia.	Φ 0.30mm * 7
O.D.	Φ 2.80±0.3mm
Color	Black

7)Packing: 1000Ft Wooden Spool

8)Temperature rating: -40C to +85C

UV Rated

ASTM D1603 2.6%

ASTM D3349 440 kAB/m

Frequency (MHz)	RL (dB)	SRL (dB)	ATTEN (dB/100m)	NEXT (dB/100m)
1	20.00	28.00	2.03	65.30
4	23.01	28.00	4.03	56.27
8	24.52	28.00	5.73	51.75
10	25.00	28.00	6.43	50.30
16	25.00	28.00	8.19	47.24
20	25.00	25.00	9.20	45.78
25	24.32	27.03	10.33	44.33
31.25	23.64	26.06	11.62	42.88
62.5	21.54	23.05	16.79	38.36
100	20.11	21.01	21.65	35.30
155	18.80	19.10	27.20	32.50
200	18.00	18.00	32.40	30.80
250	17.30	17.00	21.65	29.30
300	16.80	16.20	41.00	28.10
350	16.30	15.60	44.90	27.10

Frequency (MHz)	PSNEXT (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
1	62.30	64.00	61.00	570
4	53.27	51.96	48.96	552
8	48.75	45.94	42.94	547
10	47.30	44.00	41.00	545
16	44.24	39.92	36.92	543
20	42.78	37.98	34.98	542
25	41.33	36.04	33.04	541
31.25	39.88	34.10	31.10	540
62.5	35.36	28.08	25.08	539
100	32.30	24.00	21.00	538
155	29.50	20.20	17.20	537
200	27.80	18.00	15.00	537
250	26.30	16.00	13.00	536
300	25.10	14.50	11.50	536
350	24.10	13.10	10.10	536