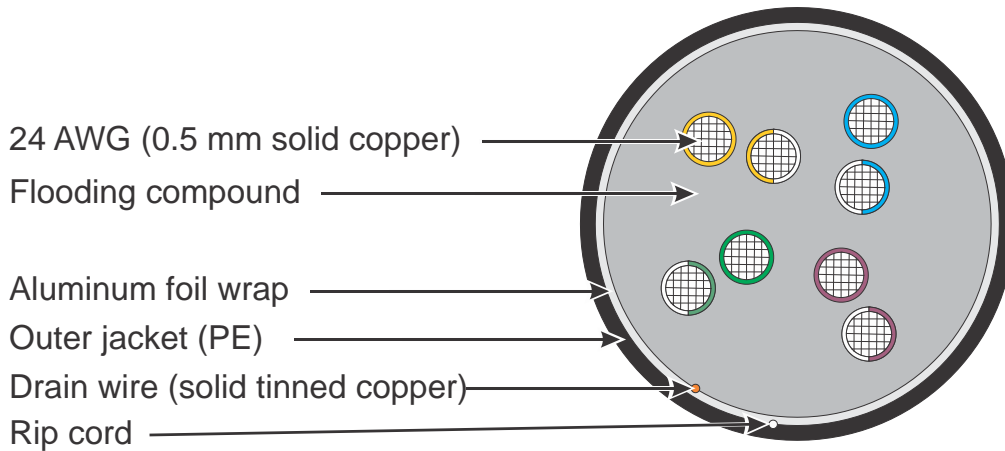


CA5EF-FTP

Premium Version

Outdoor Rated CAT5E Shielded Cable



- Outdoor Rated
- TIA/EIA 568-B.2
- ISO 11801
- Flooded 4 pair Twisted
- RoHS Compliant

Cable Construction	
Description	Material
1. Insulation-Outer Jacket	PE (Polyethylene)
2. Insulation-Conductor	PE (Polyethylene)
3. Center Conductor	Solid Bare Copper 24AWG (0.5mm)
4. Flooding Compound	Grease (Gel Filled)
5. Jacket Color	Black
6. Shield Wrap	Aluminum Foil Polyester Tape
7. Coverage	120%
8. Drain Wire	Solid Tinned Copper (0.4mm)
9. Rip Cord	200Dx3



Mechanical Specification			
Description	Unit	US	Metric
Nominal Jacket OD	in. - mm	0.267	6.80
Nominal Jacket Thickness	in. - mm	0.025	0.65
Jacket Minimum Spot Thickness	in. - mm	0.023	0.60
Installation Temperature	F - C	-4° to 140°	-20° to 60°
Operating Temperature	F - C	-40° to 167°	-40° to 75°



Electrical Specification	
Description	Specification
Maximum Conductor DC Resistance	$\leq 93.8 \Omega/\text{km}$
Unbalance of Pair DC Resistance	$\leq 2.5 \%$
Dielectric Strength between Pairs	$\leq 1.0 \text{ kV}/\text{min}$
Maximum Pair Mutual Capacitance	$\leq 5.6 \text{ nF}/100\text{m}$
Minimum Insulation Resistance	$\geq 5000 \text{ M}\Omega \cdot \text{km}$
Maximum Pair Capacitance Unbalance	$\leq 330 \text{ pF}/100\text{m}$
Impedance	$100 \pm 15\Omega$ (1 to 100 MHz) $100 \pm 25\Omega$ (100 to 200 MHz) $100 \pm 35\Omega$ (200 to 350 MHz)
Delay Skew (1 to 100 MHz)	$\leq 45 \text{ ns}/100\text{m}$

Electrical Performance								
Frequency (MHz)	Min. RL (dB)	Max.IL (dB/100m)	Min. NEXT (dB)	Min.PSNE XT (dB)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)	Max. Delay (ns/100m)	Max. Delay Skew (ns/100m)
1.0	20.0	2.0	65.3	62.3	63.8	60.8	570	45
4.0	23.0	4.1	56.3	53.3	51.8	48.8	552	45
8.0	24.5	5.8	51.8	48.8	45.7	42.7	547	45
10.0	25.0	6.5	50.3	47.3	43.8	40.8	545	45
16.0	25.0	8.2	47.3	44.2	39.7	36.7	543	45
20.0	25.0	9.3	45.8	42.8	37.8	34.8	542	45
25.0	24.3	10.4	44.3	41.3	35.8	32.8	541	45
31.25	23.6	11.7	42.9	39.9	33.9	30.9	540	45
62.50	21.5	17.0	38.4	35.4	27.9	24.9	539	45
100.0	20.1	22.0	35.3	32.3	23.8	20.8	538	45
155.0	18.8	28.1	32.5	29.4	20.0	17.0	537	45
200.0	18.0	32.4	30.8	27.8	17.8	14.8	537	45
250.0	17.3	36.9	29.3	26.3	15.8	12.8	536	45
300.0	16.8	41.0	28.2	25.1	14.3	11.3	536	45
350.0	42.6	44.9	27.2	24.1	12.9	9.9	536	45

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