



CATEGORY
**ELECTRICAL
WIRES**

AMMO ITEM #

CAT6 FLUKE

Company: _____

Job: _____ #Item: _____

Notes: _____

UTP CAT6E (FLUKE)



Intertek

APPLICATION

- IEEE 802.3:10 Base-T, 100 Base-T4, 1000 Base-X, 100 Base-VG
- 100 Mbps TPDDI, 1000 Base T, 622 Mbps ATM
- High Speed Horizontal Cabling
- Gigabit Ethernet

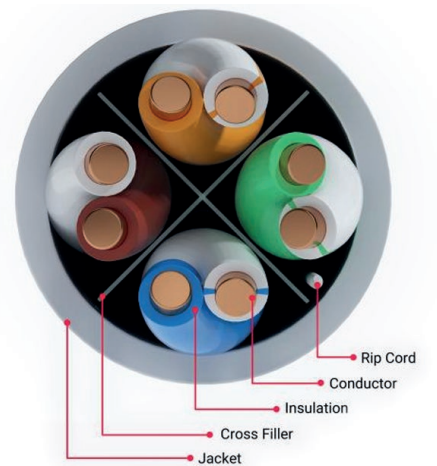
STANDARD COMPLIANCES

- TIA /EIA-568-B.2 -1
- ISO/IEC 11801
- EN50173

CONSTRUCTION CHARACTERISTICS

Conductor	Material	CCA
	AWG	23
	Diameter (±0.00039 in)	0.0220
Insulation	Material	HD-PE
	Average Thickness (in)	0.0087
	Diameter (±0.00039 in)	0.0386
	Min.Point Thickness (in)	0.0079
Jacket	Material	PVC-CMR RATED
	Outer Diameter (±0.0079 in)	0.236
	Min Thickness (±0.00039 in)	0.0217
	AVG Thickness (in)	0.0236
	Rip Cord	Nylon

CROSS SECTION



PHYSICAL & ELECTRICAL PROPERTIES

- Impedance (ohms): _____ 100 ± 15
- Rated Temperature °F: _____ 167
- Delay Skew(ns/1000 ft): _____ ≤137 ns
- DC Resistance 68 °F: _____ 22
- Insulation Resistance: _____ >16404.2 MΩ*1000 ft
- Dielectric Strength: _____ DC 2500V 2S
- Pair-to-Ground Capacitance Unbalance (pF/1000 ft): _____ ≤1006
- Max. Conductor DC Resistance 68 °F (ohms/1000 ft): _____ 22.0
- Resistance Unbalance (%) : _____ ≤5

AMMO#	COLOR	WEIGHT (lb)	PKG FT	UPC
CAT6E-FLUKE-B	Blue	43.0	1000 / box	840526231805
CAT6E-FLUKE-W	White	43.0	1000 / box	840526231812
CAT6E-FLUKE-GN	Green	43.0	1000 / box	840526231829
CAT6E-FLUKE-GY	Grey	43.0	1000 / box	840526231836
CAT6E-FLUKE-R	Red	43.0	1000 / box	840526231843
CAT6E-FLUKE-Y	Yellow	43.0	1000 / box	840526231850

ELECTRICAL WIRES



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MECHANICAL CHARACTERISTICS

- Test Object: _____ Jacket
- Test Material: _____ PVC
 - Before Tensile Strength (psi): _____ ≥ 2001.5
 - Aging Elongation (%): _____ ≥ 100
- Aging Condition ($^{\circ}\text{F} \times \text{hrs}$): _____ 212×168
 - After Tensile Strength (Mpa): _____ $\geq 85\%$ of unaged
 - Aging Elongation (%): _____ $\geq 50\%$ of unaged

- Cold Bend ($-4 \pm 3.6^{\circ}\text{F} \times 4 \text{ hrs}$): _____ No crack
- Bending Radius: _____ $\geq 4 \times \text{OD}$ (without load)
- Temperature Range: _____ $-40^{\circ}\text{F} \sim 167^{\circ}\text{F}$
 - During operation: _____ $-4^{\circ}\text{F} \sim 167^{\circ}\text{F}$
 - During installation: _____ $32^{\circ}\text{F} \sim 140^{\circ}\text{F}$
- Voltage Rating: _____ 30 V

FREQUENCY	RETURN LOSS	ATTENUATION	NEXT	PSNEXT	ELFEXT	PSELFEXT	DELAY MAX
(MHz)	(Min dB)	Max (dB/100 ft)	(Min dB)	Min (dB)	Min (dB/100 ft)	Min (dB/100 ft)	(ns/100 ft)
1	20	0.61	74.3	72.3	20.66	19.75	173.7
4	23	1.25	65.3	63.3	16.98	16.06	168.2
8	24.5	1.77	60.8	58.8	15.15	14.23	166.6
16	25	2.5	56.3	54.3	13.32	12.4	165.5
20	25	2.83	54.8	52.8	12.71	11.79	165.2
62.5	21.5	5.18	47.4	45.4	9.69	8.78	164.2
100	20.1	6.71	44.3	42.3	8.47	7.56	163.9
200	18	9.87	39.8	37.8	6.61	5.7	163.5
250	17.3	11.25	38.3	36.3	6.04	5.12	163.5

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