



CATEGORY
**ELECTRICAL
WIRES**

AMMO ITEM #

CAT6-CMP

Company: _____

Job: _____ #Item: _____

Notes: _____

UTP Solid Bare Copper Plenum



Intertek

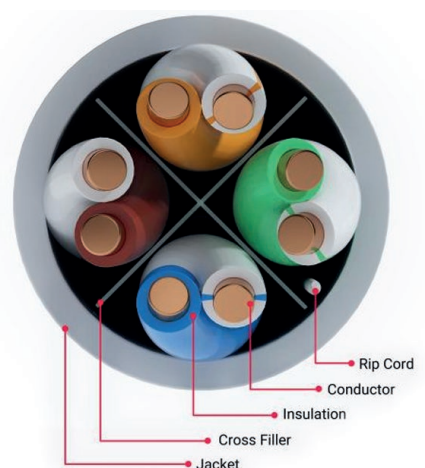
APPLICATION

- IEEE 802.3: 1000BASE-T, 100BASE-TX, 10BASE-T
- IEEE 802.5: 4/6 Mbps Token Ring
- ANSI X3.263: 1000 Mb/s
- Gigabit Ethernet

STANDARD COMPLIANCES

- TIA/EIA-568-B.2 -1
- ISO/IEC 11801
- EN50173
- ETL Certified UL 444 Plenum Rated

CROSS SECTION



CONSTRUCTION CHARACTERISTICS

Conductor	Material	Bare Copper
	AWG	23
	Diameter (±0.00039 in)	0.0217 (± 0.0004)
Insulation	Material	HD-PE
	Average Thickness (in)	0.0087
	Diameter (±0.00039 in)	0.0398
	Min.Point Thickness (in)	0.0079
Jacket	Material	CMP RATED
	Outer Diameter (±0.0079 in)	0.2402
	Min Thickness (±0.00039 in)	0.0217
	AVG Thickness (in)	0.0236
	Rip Cord	Nylon

PHYSICAL & ELECTRICAL PROPERTIES

- Impedance (ohms): _____ 100 ± 15
- Rated Temperature °F: _____ 167
- Delay Skew (ns/1000 ft): _____ ≤137.2
- DC Resistance 68 °F: _____ 9.8
- Insulation Resistance: _____ >16404 MΩ*1000 ft
- Dielectric Strength: _____ DC 2500 V 2S
- Pair-to-Ground Capacitance Unbalance (pF/1000 ft): _ ≤1005.8
- Max. Conductor DC Resistance 67 °F (ohms/1000 ft): _ 22.0 ohms
- Resistance Unbalance (%): _____ ≤5

AMMO#	COLOR	WEIGHT (lb)	PKG (ft)	UPC
CAT6-CMP-B	Blue	44.10	1000 / box	840526231867
CAT6-CMP-GN	White	44.10	1000 / box	840526231881
CAT6-CMP-GY	Green	44.10	1000 / box	840526231898
CAT6-CMP-R	Gray	44.10	1000 / box	840526231904
CAT6-CMP-W	Red	44.10	1000 / box	840526231874
CAT6-CMP-Y	Yellow	44.10	1000 / box	840526231911

ELECTRICAL WIRES



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MECHANICAL CHARACTERISTICS

- Test Object: _____ Jacket
- Test Material: _____ PVC
 - Before Tensile Strength (psi): _____ ≥ 2002
 - 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	0.61	65.3	62.3	19.45	18.53	173.74
4	23.0	1.25	56.3	53.3	15.76	14.84	168.25
8	24.5	1.77	51.8	48.8	13.93	13.01	166.64
16	26.0	2.5	47.3	44.3	12.1	11.19	165.51
20	26.5	2.83	45.8	42.8	11.49	10.58	165.2
62.5	25.0	5.18	38.4	35.4	8.47	7.56	164.17
100	25.0	6.71	38.4	32.3	7.25	6.34	163.86
200	18.0	9.88	30.8	27.8	5.4	4.48	163.53
250	17.3	11.25	29.3	26.3	4.82	3.9	163.47

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