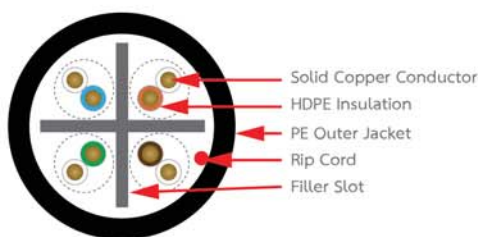


**C61005**  
**CAT6 23AWG Solid Bare Copper**  
**Outdoor Cable**  
**PE Single Jacket Jacket**



**Descriptions**

The BELLCOMMS 600Mhz Series Category6 Cable is a superior product delivering the best network performance when used in conjunction with other BELLCOMMS Series Category6 products. The Cable is constructed of 4 pairs with solid and insulated copper conductors, and is UL CM fire rated. It is designed for use in horizontal cabling and comes in a 305m (1000ft) easy pull out box.



**Standard**

- ANSI/TIA-568-C.2 CATEGORY 6
- ISO/IEC 11801:2002 CLASS E
- EN50173-1 CATEGORY 6
- ICEA S-102-700 CATEGORY 6
- EN50288-6-1, NEMA WC 66,UL1666
- IEC 61156-5, ASTM D4566-98, IEC 60332-1-2
- UL/CSA LISTED CM, CMR, CMP AND LSZH
- ETL TO VERIFIED TO TIA-568-C.2 CAT6
- UL, INTERTEK, RoHS COMPLIANT

**Applications**

- STRUCTURE CABLING(BACKBONE AND HORIZONTAL)
- 10G BASE-T(IEEE 802.3an 10GIGABIT ETHERNET, 55m.)
- 1000 BASE-T(IEEE 802.3ab GIGABIT ETHERNET)
- 1000 BASE-TX(TIA/EIA-854)
- 100 BASE-TX(IEEE 802.3U FAST ETHERNET)
- 10 BASE-T (IEEE 802.3 ETHERNET)
- 52/155/622Mbps AND 1.2Gbps ATM
- 4/16 Mbps TOKEN RING
- IEEE 802.3 i/u/ab.
- CDDI / ATM / TOKEN RING / VOIP
- POE, POE+(IEEE 802.3af,IEEE 802.3at)
- TP-PMD, TPDDI, ISDN, VoIP
- IEEE 802.3AF(PoE) / IEEE 802.3AT (PoE+)
- LIMIT POWER- LP UL POE SAFTY STANDARD
- HDBASE T 2.0 STANDARD
- ETHERCAT INDUSTRIAL STANDARD.
- ANALOG & DIGITAL VOICE, DIGITAL & ANALOG VIDEO

**Construction and Material**

Construction and Material	Descriptions
Number of Pairs	4 pairs, 23AWG
Sheath Material(Outer Jacket)	PE
Filler slot	FRPE isolator separator
Ripcord	Under Jacket
Conductor dimension	0.56mm.(23AWG solid bare copper)
Insulation thick	0.99mm HDPE
Insulation Color	Blue/White-Blue, Orange/White-Orange, Green/ White-Green, Brown/White-Brown
Insulation type	Polyolefin
Cable diameter / Nominal(OD)	6.10 +/- 0.20mm.
Weight	11.89 Kg/305M

**Electrical Characteristics**

Operating frequency	1 - 600 MHz
Impedance	100 +/- 5 Ohm to 600Mhz
Mutual Capacitance	5.6 nF Max / 100m
DC Resistance	66.58 Ohm Max / 100m
DC Resistance unbalance	5% max
Insulate Resistance	5000 MΩ / Km
Dielectric Strength	1 kV / min
Capacitance Unbalance	160 pF Max / 100m
Propagation Delay	536 ns / 100m Max@ 600Mhz
Delay Skew	30 ns Max, NVP 69%
Voltage	300 Volts AC or DC
Test Voltage(DC, 1min)	1kV / min

**Mechanical Properties**

Minimum Bending Radius	Install 8 x Cable Diameter After Install 4 x Cable Diameter
Tensile Strength	9.7 MPa(1400PSI)
Installation / Operating Temperature	-40 °C to 75 °C
Storage Temperature	-40 °C to 80 °C

**Electrical Characteristics**

Frequency (Mhz)	Insertion Loss (dB/100m)	NEXT MIN.(dB)	ACR-N MIN.(dB)	PS NEXT MIN.(dB)	PS ACR-N MIN.(dB)	ACR-F MIN.(dB/100m)	PS ACR-F MIN.(dB/100m)	RL MIN.(dB)
1	2.0	78.0	76.0	76.0	73.5	69.0	66.0	20.0
31.25	10.7	56.0	45.3	54.0	42.8	38.5	35.6	23.6
62.5	15.4	50.5	35.1	52.2	33.0	33.0	29.5	21.5
100	19.8	47.5	27.7	49.8	25.6	28.5	25.8	20.1
155	25.1	45.0	19.7	47.2	17.2	25.0	23.0	18.8
200	29.0	44.4	15.4	45.0	12.3	22.5	21.7	18.0
250	32.0	46.0	10.9	45.3	6.5	24.3	18.0	25.3
300	36.4	41.5	4.9	40.7	1.9	18.5	15.6	16.8
400	43.0	38.5	-	37.5	-	16.5	13.7	15.9
500	51.8	36.7	-	34.5	-	13.5	10.7	14.9
600	54.5	39.6	-	36.6	-	15.1	10.0	22.8

Order Part Number as Below.

Part Number.	Descriptions.
C61005	CAT6, 23AWG Solid Bare Copper, Outdoor Cable, PE Jacket, Black Color