

Applications

This cable is suitable for internal use of Local Area Networks and Analogue & Digital video applications

Standards

- ANSI/TIA-568-C.2
- ISO/IEC 11801 2ND edition
- EN50173-1 & EN50288-6-1
- IEC 60332-1-2.
- RoHS 2002/95/EC

Design

1. Conductor

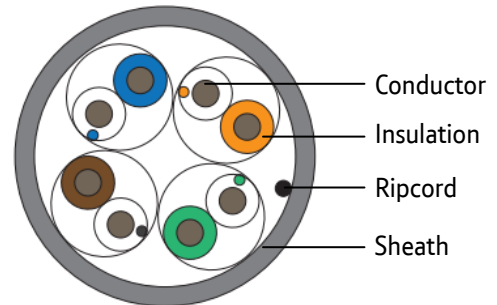
Solid annealed copper

2. Insulation

HDPE

3. Sheath

PVC (Grey RAL7035) or LSZH (Violet RAL4005) or PE (Black RAL9017)



Standard Put-Up Length
305m

Physical Characteristics

Conductor Diameter Nom. (mm)	Insulation Diameter Nom. (mm)	Overall Diameter Nom. (mm)	Sheath Thickness (mm)	Cable Weight (kg/km)	Rated Temperature (°C)	Min. Bend Radius (install) (mm) **
0.485	0.89	5.0	0.50	28(25*)	-20~60	40

25* refers to PE sheathed cable, ** Ref. IEC11801 2nd Edition

Electrical Characteristics at 20°C (part 1)

Impedance from 1MHz to 100MHz (Ω)	Max. Conductor DC Resistance ($\Omega/100m$)	Mutual Capacitance at 1KHz (pF/m)	Max. Pair to Ground Capacitance Unbalance (pF/100m)	Min. Insulation Resistance ($M\Omega \cdot km$)	Max. Resistance Unbalance (%)
100 \pm 15	98.5	56	330	200	2.5

Electrical Characteristics at 20°C (part 2)

Frequency (MHz)	Nominal Attenuation (dB/100m)	Minimum NEXT (dB)	Minimum PSNEXT (dB)	Minimum ELFEXT (dB)	Minimum PSELFEXT (dB)	Min. Return Loss (dB)	Maximum Time Delay (ns/100m)
1	2.0	65	62	63	60	20.0	570
4	4.1	56	53	51	48	23.0	552
8	5.8	51	48	45	42	24.5	547
10	6.5	50	47	43	40	25.0	545
16	8.2	47	44	39	36	25.0	543
20	9.3	45	42	37	34	25.0	542
25	10.4	44	41	35	32	24.3	541
31.25	11.7	42	39	33	30	23.6	540
62.5	17.0	38	35	27	24	21.5	538
100	22.0	35	32	23	20	20.1	537

Colour Scheme

1	2	3	4
Blue + White/Blue	Orange+ White/Orange	Green+ White/Green	Brown+ White/Brown

Part Numbers

P/N	Description
BTXCM905EUN08	CAT5E UTP PVC GREY
BTXCM905EUZ07	CAT5E UTP LSZH PURPLE
BTXCM905EUP00	CAT5E UTP PE BLACK