

Part No: C6C
Description: The TruLAN Cat 6 cable is the ideal choice for high speed data networks across a home or building. Suitable for external applications.



TESTED TO
500MHz



Construction

Conductor Bare Copper
 AWG 23(1)
 Insulation Material High Density Polyethylene (HDPE)
 Number of Pairs 4
 Pair Identification TIA 568
 Sheath Material Low Density Polyethylene (LDPE)
 Sheath Colour Black

Electrical Characteristics

Max. Conductor Resistance @ 20°C ≤ 9.38 Ω/100m
 Max. Resistance Unbalanced ≤ 2.5 %
 Nominal Impedance (1-100MHz) 100 ± 15 Ω
 Insulation Resistance 5000MΩ/km
 Mutual Capacitance ≤ 5.6nF/100m
 Capacitance Unbalanced to Earth ≤ 330 pF/ 100m
 NVP 68.5 %
 Max. Delay Skew ≤ 45 nS/ 100m
 Voltage Rating EN 50525-1 450/750V*
 Test Voltage 2.5kV (AC)

Physical Characteristics

Overall Diameter 6.2 ± 0.1mm
 Bend Radius Fixed 4 x OD, Flexing 8 x OD
 Temperature Rating Fixed -20°C to 80°C, Flexing 0°C to 60°C
 Weight 46 kg/km

Transmission Performance

Frequency	1	4	10	16	20	31.25	62.5	100	200	250	300	400	500	MHz
Attenuation	1.9	3.5	5.5	7.0	7.9	10.0	14.4	18.6	27.4	31.1	34	41.1	47.1	dB/100m
Return Loss	19.1	21.0	21.0	20.0	19.5	18.5	16.0	14.0	11.0	10.0	9.2	8.0	7.0	dB
NEXT	65.0	64.1	57.8	54.6	53.1	50.0	45.1	41.8	36.0	35.3	34.0	31.9	30.4	dB
PS NEXT	62.0	61.8	55.5	52.2	50.7	47.5	42.7	39.3	34.3	32.7	31.4	29.3	27.6	dB
ACRF	64.2	52.1	44.2	40.1	38.2	34.3	28.3	24.2	18.2	16.2	14.6	12.1	10.2	dB
PSACRF	61.2	49.1	41.2	37.1	35.2	31.3	25.3	21.2	15.2	13.2	11.6	9.1	7.2	dB

Standards

RoHS2 Compliance Yes UV Resistance Good, ISO 4892-3†
 CE Compliant LVD (2014/35/EU) Weather Resistance Good, ISO 4892-3†
 Manufactured in accordance to TIA/EIA 568-C.2, ISO/IEC 11801

*Suitable for installation where Band II 450/750v cables are present. Not suitable for connection to mains supply

†500 hour test duration, equivalent to 9-12 months of northern Europe climate.

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ISO 9001:2015 Certificate Number: DAS94272226/0/Q

Part Number: C6C
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 Page Number: 1 of 1