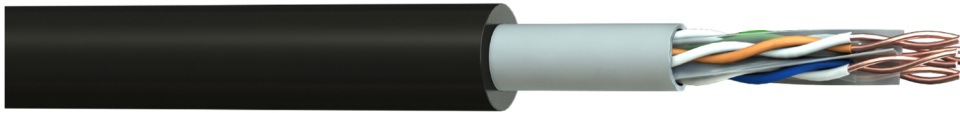


Part No: C6D
Description: The TruLAN Cat 6 cable is the ideal choice for high speed data networks across a home or building. Suitable for external applications and ducts.



**TESTED TO
500MHz**



Construction

Conductor Bare Copper
AWG 23(1)
Insulation Material High Density Polyethylene (HDPE)
Number of Pairs 4
Pair Identification TIA 568
Inner Sheath Material Polyvinyl Chloride (PVC), Grey
Outer Sheath Material Low Density Polyethylene (LDPE), 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 8.6 ± 0.3mm
Bend Radius Fixed 4 x OD, Flexing 8 x OD
Temperature Rating Fixed -20°C to 70°C, Flexing -10°C to 60°C
Weight 86 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.

Tru Cables Tel: 01727 840 841 info@trucables.com www.trucables.com

Information and images on this datasheet are intended for guidance only and products may vary due to manufacturing changes, technical improvements and commercial factors. We reserve the right to amend the product information without notice or liability.

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

Part Number: C6D
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Author: Checked:
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