Cat 6 U/UTP 12pair (3 x 4pair) PVC
Technical Datasheet

Part No: C6R3-E00

Description: The TruLan Cat 6 U/UTP 12pair (3 x 4pair) cable in PVC is the ideal choice for high speed data networks across a home or building.

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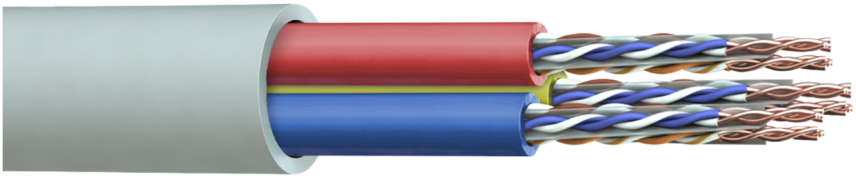

CONSTRUCTION PRODUCTS REGULATION
BS EN 50575
CLASS Eca
INDEPENDENTLY VERIFIED

3 x Cat 6 U/UTP PVC

Conductor	: Bare Copper
AWG	: 23(1)
Insulation Material	: High Density Polyethylene (HDPE)
Number of Pairs	: 4
Pair Identification	: Blue, Blue/White; Orange, Orange/White
	: Green, Green/White; Brown, Brown/White
Outer Sheath Material	: Polyvinyl Chloride (PVC)
Outer Sheath Colour	: 1 x Blue, 1 x Red, 1 x Yellow

Overall Construction

Outer Sheath Material	: Polyvinyl Chloride (PVC)
Outer Sheath Colour	: Grey

Electrical Characteristics

Max. Conductor Resistance @ 20°C	: ≤ 9.5 Ω/100m
Max. Resistance Unbalanced	: ≤ 2.5 %
Nominal Impedance (1-100MHz)	: 100 ± 15 Ω
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)

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

Physical Characteristics

Overall Diameter	: 15.0 ± 0.5mm			
Bend Radius	: Fixed	4 x OD	Flexing	8 x OD
Temperature Rating	: Fixed	-20°C to 60°C	Flexing	-10°C to 60°C
Weight	: 140 kg/km			

Transmission Performance

Frequency	1	4	10	16	20	31.25	62.5	100	200	250	MHz
Attenuation	1.9	3.5	5.5	7.0	7.9	10.0	14.4	18.6	27.4	31.1	≤ dB
Return Loss	19.1	21.0	21.0	20.0	19.5	18.5	16.0	14.0	11.0	10.0	≥ dB
NEXT	65.0	64.1	57.8	54.6	53.1	50.0	45.1	41.8	36.0	35.3	≥ dB
PS NEXT	62.0	61.8	55.5	52.2	50.7	47.5	42.7	39.3	34.3	32.7	≥ dB
ACRF	64.2	52.1	44.2	40.1	38.2	34.3	28.3	24.2	18.2	16.2	≥ dB
PSACRF	61.2	49.1	41.2	37.1	35.2	31.3	25.3	21.2	15.2	13.2	≥ dB

Standards

Flame Retardant	: BS EN 60332-1-2
RoHS3 Compliance	: Yes
CE Compliant	: LVD (2014/35/EU), CPR (305/2011)
Manufactured in accordance to	: TIA/EIA 568-C.2, ISO/IEC 11801
CPR Classification	: Eca (EN50575:2014+A1:2016)

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