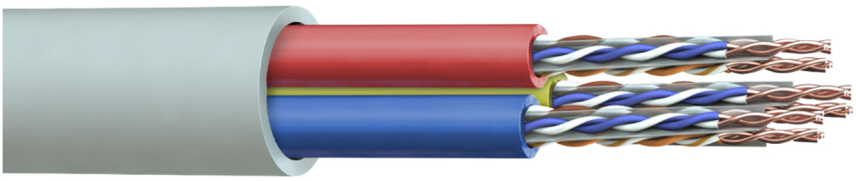
Cat 6 U/UTP 12pair (3 x 4pair) PVC
Technical Datasheet

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.

truLAN
truHOME



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

FS Cables Ltd
Export Sales

01727 840 841
+44 1727 849 841

sales@fscables.com
sales@fscglobal.com

www.fscables.com
www.fscglobal.com

Information and images on this techincal 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.