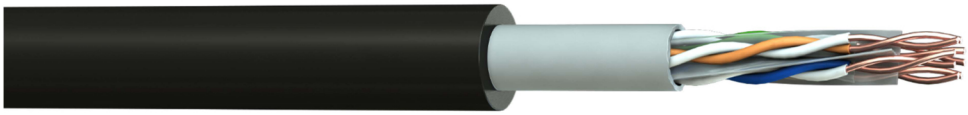
TruLan Cat 6 U/UTP PE Duct Grade
Technical Datasheet

Part No: TR-4075

Description: The TruLan Cat 6 U/UTP cable in a heavy Black PE jacket is the ideal choice for high speed data networks and is suitable for external applications and running through ducting due to is heavy PE outer sheath.



TESTED TO 500MHz

UV & WEATHER RESISTANT

CONSTRUCTION PRODUCTS REGULATION BS EN 50575 CLASS Fca INDEPENDENTLY VERIFIED

Construction

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
Inner Sheath Material	: Polyvinyl Chloride (PVC)
Inner Sheath Colour	: Grey
Outer Sheath Material	: Polyethylene (PE)
Outer Sheath Colour	: Black

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	: 8.6 ± 0.4mm		
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	: 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	34.0	41.1	47.1	≤ dB
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

RoHS3 Compliance	: Yes	UV & Weather Resistance	: ISO 4892-3
CE Compliant	: LVD (2014/35/EU)	CPR Classification	: Fca (EN50575:2014+A1:2016)
Manufactured in accordance to	: TIA/EIA 568-C.2, ISO/IEC 11801		