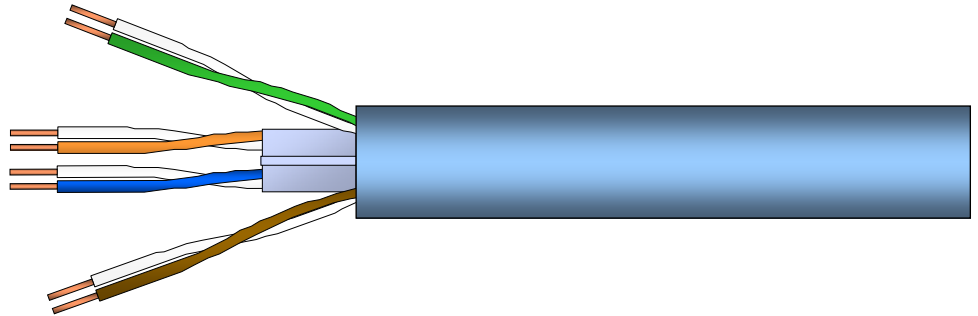
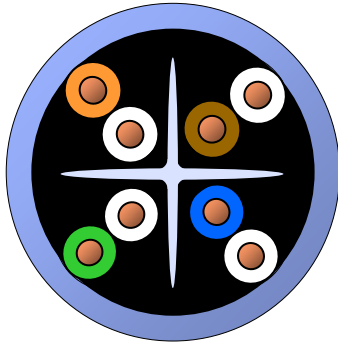


UTP Data Cable



Cabling Application

Structured Cable for Campus, Riser & Horizontal Installation

Compatible with all Known Connection systems according to EN50173(2002)

Applicable Standards

ISO/IEC 11801:2002
EN 50173(2002); EN 50288-6-1
ANSI/TIA/EIA-568-B.2-2001 and 568-B.2-1-2002
Fire Propagation Test: UL 1581 VW1(PVC only); IEC60332.1; EN50265-2-1

Cable construction

Conductor	Bare Cu Wire	Outside Dia of Conductor (AWG)	0.59mm(23)
Insulator Material	PE	Outside Dia of Insulation	1.045 mm
Number of Twisted Pairs	4	Outside Dia of Sheath PVC(OHLS)	5.8(5.4) mm
Spline Material	PVC or LS0H	Weight PVC (OHLS)	40.8(46.1) kg/km
Sheath Material	PVC or LS0H	Sheath Colour	PVC – Grey LS0H - Purple
		Sheath Printing	Batch No. & Metre marking

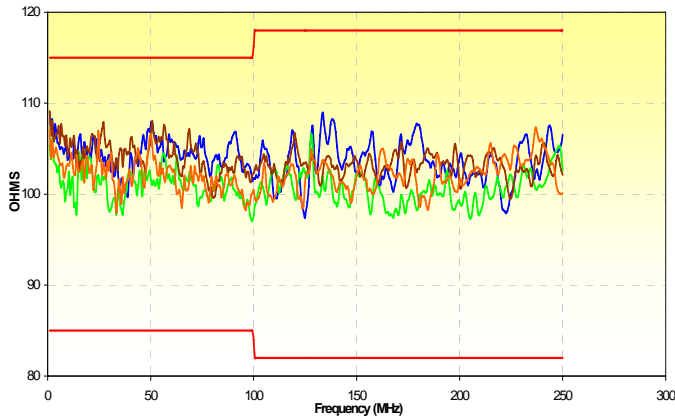
Cable Properties

Min. Installation Bend Radius	8 x Dia	Characteristic impedance (1-100Mhz)	100±15 Ω
Min. Installed Bending Radius	4 x Dia	Characteristic impedance (100-250Mhz)	100±18 Ω
Max. Installation Tension	100N	DC Conductor Loop Resistance	25 Ω/100m
Max. Installed Tension	Zero	Max. Resistance unbalance	≤2%
Installation Temp. Range (Installed)	0 to 50°C	Nominal Velocity of Propagation	66%
Operating Temp. Range	-20 to 60°C	Nominal Capacitance	50 pF/m
		Max. Capacitance unbalance	1600 pF/km
		Insulation Resistance (500V)	≥2000 MΩ.km

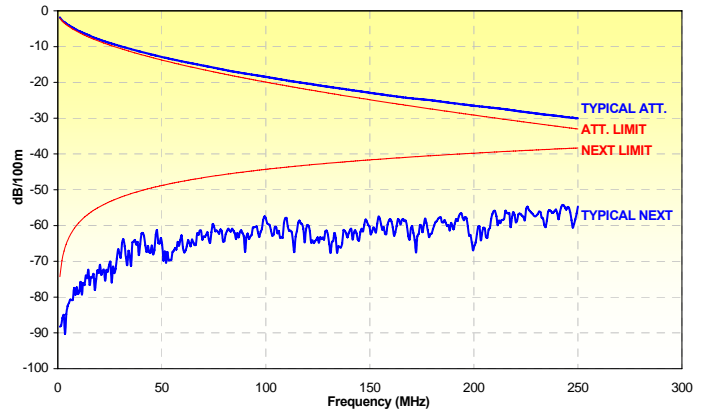
Packaging

Reel Sizes	P4	Notes
Length per Reel	305m	
Reel Dimensions	Ø400mm	
Weight (approx.)	19kg	

Performance Impedance



Attenuation & NEXT



Ordering

Category 6 UTP PVC 305m Grey
 Category 6 UTP LSOH 305m Purple

CA085
CA076

Applications Supported

Network Sciences Category 6 UTP cable is designed to support any data or voice system that is capable of running over a Category 6 system. When used with Category 6 patch panels and outlets from the Network Sciences range the combined performance exceeds the Category 6/Class E link and channel requirements. The chart below shows the performance requirements of today's networking protocols.

Protocol	Common Pairs	Bit Rate	Bandwidth	Cabling Class used*
Analogue Voice Systems	1	Analogue	< 1MHz	Category 5 (Class D)
Digital Voice Systems	1	Analogue	< 1MHz	Category 5 (Class D)
ISDN	1 & 3	64/128Kbits	< 1MHz	Category 5 (Class D)
ICL	2 & 4	1Mbits	<16MHz	Category 5 (Class D)
10BaseT	2 & 3	10Mbits	16MHz	Category 5 (Class D)
4/16 Mbit Token Ring	1 & 3	4/16Mbits	20MHz	Category 5 (Class D)
100BaseT	2 & 3	100Mbits	32MHz	Category 5 (Class D)
100BaseT4	1, 2, 3 & 4	100Mbits	16MHz	Category 5 (Class D)
155 ATM	2 & 4	155Mbits	100MHz	Category 5E (Class D-2000)
AS400	1 & 2	2Mbits	<16MHz	Category 5 (Class D)
IBM 3270	1 & 2	1Mbits	<16MHz	Category 5 (Class D)
Baseband Video CCTV, etc.	1	Analogue	<10MHz	Category 5 (Class D)
Building Management Systems	1, 2, 3 & 4	Analogue	<1MHz	Category 5 (Class D)
1000BaseTx	1, 2, 3 & 4	1Gbits	100MHz	Category 5E (Class D-2000)
1000BaseT	2&3	1Gbits	200MHz	Category 6 (Class E-2000)