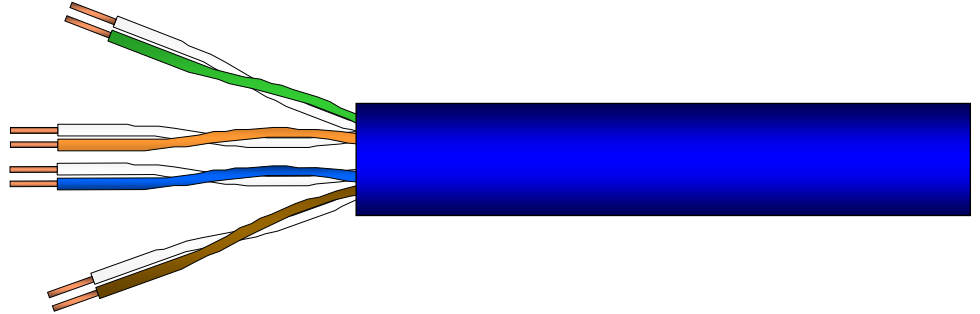
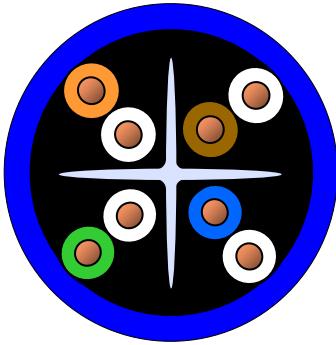
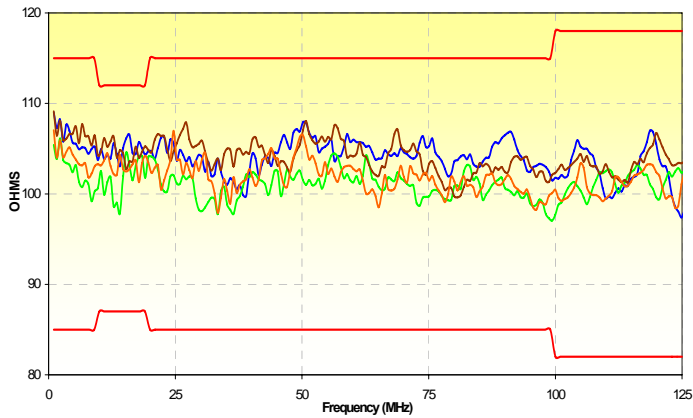


UTP Data Cable

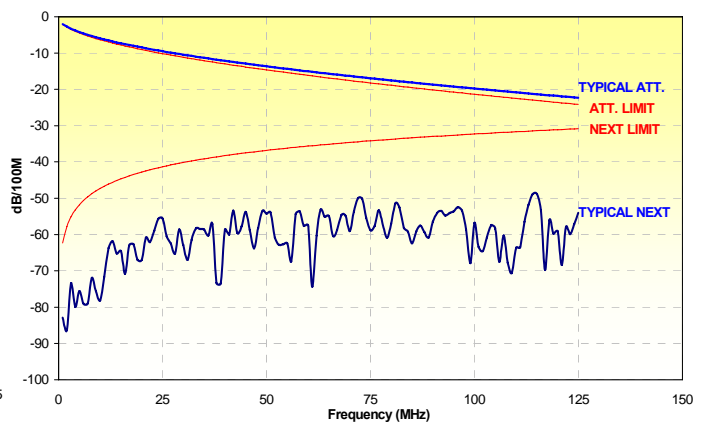


Cabling Application		Applicable Standards	
Structured Cable for Campus, Riser & Horizontal Installation		ISO/IEC 11801 – 2 nd Edition	
Compatible with all Known Connection systems according to EN50173		EN 50173; EN 50288-3-1	
Approved by BASEC 067/001/010		ANSI/TIA/EIA-568-B.2-2001	
		Fire Propagation Test : UL 1581 VW1(PVC only); IEC 60332.1;EN50256-2-1	
Cable construction			
Conductor	Bare Cu Wire	Outside Diameter of Conductor	0.50 mm
Insulator Material	PE	Outside Diameter of Insulation	0.90 mm
Number of Twisted Pairs	4	Outside Diameter of Sheath	4.75 mm
Sheath Material	PVC or OHLS	Weight PVC (OHLS)	27(31) kg/km
		Sheath Colour	PVC – Grey LS0H - Purple
		Sheath Printing (up to 24 characters)	Batch No. & Metre marking
Cable Properties		Electrical Characteristics @ 20 °C	
Min. Installation Bend Radius	8 x Dia	Characteristic imped. (1-10&20-100Mhz)	100±15 Ω
Min. Installed Bending Radius	4 x Dia	Characteristic impedance (10-20Mhz)	100±12 Ω
Max. Installation Tension	100N	DC Conductor Loop Resistance	19 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			
Box Sizes	'Reelex'		
Length per Box	305 m		
Box Dimensions (LxHxW)	350x350x225mm		
Weight (approx.)	10.0 kg		

Performance Impedance



Attenuation & NEXT



Ordering

Category 5E UTP PVC 305m Grey	CA082
Category 5E UTP PVC 305m Blue	CA083
Category 5E UTP LS0H 305m Purple	CA075

Applications Supported

Network Sciences Category 5E UTP cable is designed to support any data or voice system that is capable of running over a Category 5E system. When used with Category 5E patch panels and outlets from the Network Sciences range the combined performance exceeds the Category 5E/Class D-2000 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)

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