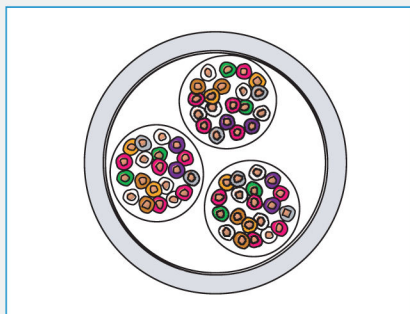


Category 3 UTP 25/50/100x2x0.5 Multipair U/UTP Data Cable



Application

These cables are used as riser cable in structured cabling networks, most often between distribution frames.

Standards

- IEC 61156, ISO/IEC 11801 /1995, TIA/EIA 568-A

Fire Rating

PVC IEC 60332-1
LSZH IEC 60332-1, IEC 61034-2,
IEC 60754-1/2

Construction

Conductor	Solid bare copper wire, diameter 0.5 mm			
Insulation	High-density polyethylene HDPE			
Stranding	25 pairs stranded to sub units. Cables with 100 pairs are built up with 1st layer: 3 basic units, 2nd layer: 7 basic units			
Sub-units no.	One	Two	Three	Four
Pair no.	1 ~ 25	26 ~ 50	51 ~ 75	75 ~ 100
Identification	Pair 1 Blue-White	Pair 10 Grey-Red	Pair 19 Brown-Yellow	
	Pair 2 Orange-White	Pair 11 Blue-Black	Pair 20 Grey-Yellow	
	Pair 3 Green-White	Pair 12 Orange-Black	Pair 21 Blue-Violet	
	Pair 4 Brown-White	Pair 13 Green-Black	Pair 22 Orange-Violet	
	Pair 5 Grey-White	Pair 14 Brown-Black	Pair 23 Green-Violet	
	Pair 6 Blue-Red	Pair 15 Grey-Red	Pair 24 Brown-Violet	
	Pair 7 Orange-Red	Pair 16 Blue-Yellow	Pair 25 Grey-Violet	
	Pair 8 Green-Red	Pair 17 Orange-Yellow	-	
	Pair 9 Brown-Red	Pair 18 Green-Yellow	-	
Wrapping	Mylar Tape			
Sheath	PVC Black, also available on request with LSZH			
Outer Diameter	Nom. 11.4(25pair) - 23.8(100pair PVC) mm			
Tensile force N	Nom. 500(25pair) - 2000(100pair PVC)			

Mechanical Properties

Minimum bending radius	Without load	4 x D (D= outer diameter)
	With load	8 x D (D= outer diameter)
Temperature	During operation	- 20° C to + 60° C
	During operation	0° C to + 50° C

Electrical Properties at 20°C

Maximum DC Resistance	≤ 95 Ω / km
Minimum Insulation DC Resistance	≥ 5000 M Ω . km
Dielectric Strength (DC)	1kV / min
Conductor resistance maximum unbalance percentage	≤ 2.5 %

Electrical Data at 20°C

Frequency (MHZ)	Max. Insertion Loss (dB) (nominal value)	Min. Return Loss (dB)	Min. NEXT (Test length > 300 m) (dB) (nominal value)	Min. ELFEXT (dB)	Min. PSELFEXT (dB/100m)	Max. DELAY (dB/100m)
1	26	12	41	39	39	570
4	56	12	32	27	27	552
8	6.7	12	28	21	21	547
10	98	12	26	19	19	545
16	131	12	23	15	15	543

Technical Data

Type	Outer diameter mm	Standard delivery length m	Tensile force N
25 x 2 x 0.5 Cat. 3 PVC	12.4 ± 1.0	500	500
50 x 2 x 0.5 Cat. 3 PVC	16.8 ± 1.0	500	1000
100 x 2 x 0.5 Cat. 3 PVC	22.8 ± 1.0	500	2000
25 x 2 x 0.5 Cat. 3 LSZH	12.7	500	500
50 x 2 x 0.5 Cat. 3 LSZH	16.1	500	1000
100 x 2 x 0.5 Cat. 3 LSZH	21.9	500	2000

Ordering Information

P/N	Product Description	P.U
tba	Category 3 U/UTP 25 X 2 X 0.5 Multipair PVC	1000m/drum
tba	Category 3 U/UTP 50 X 2 X 0.5 Multipair PVC	1000m/drum
tba	Category 3 U/UTP 100 X 2 X 0.5 Multipair PVC	1000m/drum
tba	Category 3 U/UTP 25 X 2 X 0.5 Multipair LSZH	1000m/drum
tba	Category 3 U/UTP 50 X 2 X 0.5 Multipair LSZH	1000m/drum
tba	Category 3 U/UTP 100 X 2 X 0.5 Multipair LSZH	1000m/drum