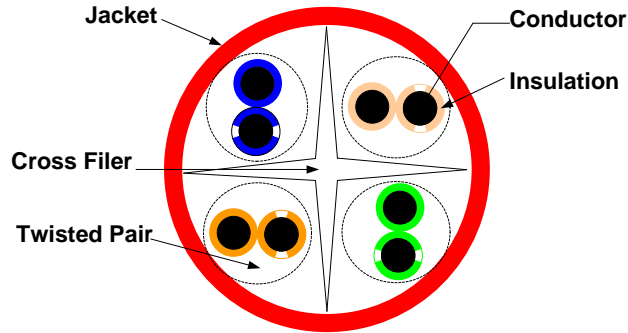


TECHNICAL SPECIFICATION

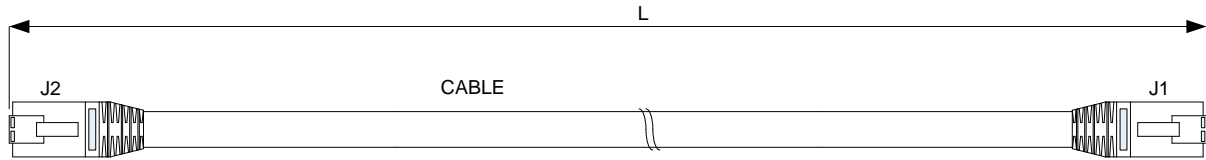


Reference Standard:

- TIA/EIA 568-B.2-10 Category 6

Construction:

Stranded bare copper conductors insulated with thermoplastics polyolefin. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit. A cross filler is cabled in between to separate the 4 pairs insulated conductors. Overall jacket with PVC (Polyvinyl chloride) compound.



Part Number	Item Number
V650021	Category 6 UTP (Patch Cord)

Conductor	
Composition (No./M)	7/0.195 ± 0.008 mm
Material	Stranded Bare Copper
Outside Diameter (mm)	7/0.195 ± 0.008 mm
AWG (Stranded)	23
Center Cross Filler	
Material	PE Cross separator
Jacket/Sheath	
Material	PVC
Thickness diameter (mm)	0.47
Overall Diameter (mm)	6.22 ± 0.3 mm
Color	Red

Insulation	
Material	PE
Thickness(Min)	0.16
Nominal Diameter (mm)	0.95 ± 0.02
Drain wire	
Material	-
Diameter (mm)	-
Color Code	
Pair 1	Blue/White –blue
Pair 2	Orange/White-orange
Pair 3	Green/White-green
Pair 4	Brown/White-brown

T568B-T568B Connect Point

J1	Color	J2
1	Orange/White	1
2	Orange	2
3	Green/White	3
4	Blue	4
5	Blue/White	5
6	Green	6
7	Brown/White	7
8	Brown	8

Patch Cord Items

No.	Description	Material	Finish	Quantity
1	50 μ RJ45 Plug	PC	Unshielded	2
2	Cable	PVC/LSZH	CAT.6 Patch	1/2/3 meter
3	Molding S.R boots	PVC	-	2
4	Cable Tie	White	-	2

Technical Data - Electrical

Max. Conductor resistance (Ω /km @ 20°C)	98	
Max. DC resistance unbalance (%)	4	
Max. Mutual capacitance (pF/m)	56	
Max. Pair to ground capacitance unbalanced (pF/km)	1600	
Input Impedance(Ω)	100 \pm 15%	1 \leq f \leq 250MHz

Electrical Performance								
Frequency	Ins. Loss	Pair to Pair		Power sum		RL	Po. Delay	Delay Skew
(MHz)	(dB/100m)	NEXT	ELFEXT	NEXT	ELFEXT	(dB)	(ns/100)	(ns)
	Max.	(dB/100m)		(dB/100m)		Min.	Max.	Max.
		Min.	Min.	Min.	Min.			
1.00	2.1	65.0	63.3	62.0	60.3	19.0	580.0	47.0
4.00	4.0	63.0	51.2	60.5	48.2	19.0	562.0	47.0
8.00	5.7	58.2	45.2	55.6	42.2	19.0	556.7	47.0
10.00	6.3	56.6	43.3	54.0	40.3	19.0	555.4	47.0
16.00	8.0	53.2	39.2	50.6	36.2	18.0	553.0	47.0
20.00	9.0	51.6	37.2	49.0	34.2	17.5	552.0	47.0
25.00	10.1	50.0	35.2	47.3	32.3	17.0	551.2	47.0
31.25	11.4	48.4	33.4	45.7	30.4	16.5	550.4	47.0
62.50	16.5	43.4	27.3	40.6	24.3	14.0	548.6	47.0
100.00	21.3	39.9	23.3	37.1	20.3	12.0	547.6	47.0
200.00	31.5	34.8	17.2	31.9	14.2	9.0	546.5	47.0
250.00	33.1	33.1	15.3	30.2	12.3	8.0	546.3	47.0

Technical Data - Physical		
Flame retardant test	IEC 332-1	
Dielectric strength	AC 1.7 KV for 2s	
Insulation	Before Aging	After Aging
Min. tension strength (psi)	2400	75% before aging (100°CX48hr)
Min. elongation(%)	300	75% before aging (100°CX48hr)
Jacket	Before Aging	After Aging
Min. tension strength (psi)	2000	85% before aging (100°CX24hrs)
Min. elongation(%)	120	50% before aging (100°CX24hrs)
Min. bending radius (mm)	24.8	
Installation temperature	0°C to +50°C	
Operating temperature	-10°C to +60°C	

Packing
Individual packed in PE plastic according to the size labeled. Final packing in the Export box.