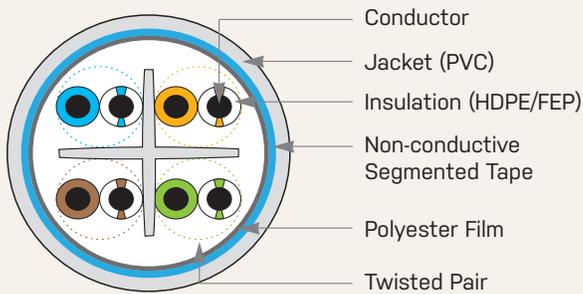
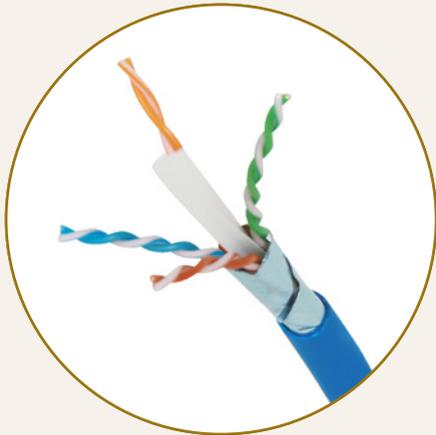


Category 6A 650MHz UTP Small O.D.

U6A650N-004-xxxx



Description

- Advanced 1/3 smaller design over competitive products which increases cable density while decreasing overall installation costs
- Non-continuous segmented metallized tape guarantees margin over Alien Crosstalk (AXT) performance requirements without grounding or bonding
- Capable of handling full broadband and baseband video signals
- Tight balance requirements improve cable performance
- Every master reel is tested for electrical performance compliance
- Dual length marking in feet and meters from 1000 ft (305 m) to 0 ft (0 m)

Application

- Horizontal Distribution & Backbone Cabling
- 155Mbps ATM, 100Mbps TP-PMD
- 10/100/1000/10GBASE-T (IEEE 802.3)
- ISDN, ADSL
- ATM LAN 1.2G
- PoE, PoE+ and PoE++ (IEEE 802.3bt draft. Type 3 & 4)

Certifications



Part Numbers

JACKET COLOR	DESCRIPTION	
	Category 6A UTP Cable, 4-Pair, Riser Rated	Category 6A UTP Cable, 4-Pair, Plenum Rated
Blue	U6A650N-004-RBL4	U6A650N-004-PBL4
White	U6A650N-004-RWH4	U6A650N-004-PWH4
Grey	U6A650N-004-RGY4	U6A650N-004-PGY4
Black	U6A650N-004-RBK4	U6A650N-004-PBK4
Yellow	U6A650N-004-RYL4	U6A650N-004-PYL4
Green	U6A650N-004-RGN4	U6A650N-004-PGN4
Red	U6A650N-004-RRD4	U6A650N-004-PRD4
Orange	U6A650N-004-ROR4	U6A650N-004-POR4
Violet	U6A650N-004-RVI4	U6A650N-004-PVI4

Performance Characteristics

Meet or exceed TIA-568-C.2 Category 6A requirements

FREQUENCY ¹ (MHZ)	RETURN LOSS (RL) MINIMUM DB/100 M			INSERTION LOSS (ATTENUATION) MAXIMUM DB/100 M		
	TIA-568-C.2 Standard	U6A650N-R Typical	U6A650N-P Typical	TIA-568-C.2 Standard	U6A650N-R Typical	U6A650N-P Typical
1	20.0	37.8	41.1	2.1	1.8	1.6
4	23.0	33.7	31.4	3.8	3.5	3.9
10	25.0	36.7	33.1	5.9	5.6	5.2
16	25.0	37.3	34.0	7.5	7.1	6.6
20	25.0	37.8	34.9	8.4	8.0	7.4
31.25	23.6	40.5	37.6	10.5	10.0	9.4
62.5	21.5	39.9	37.6	15.0	14.5	13.7
100	20.1	39.3	36.5	19.1	18.4	17.6
200	18.0	38.0	36.1	27.6	26.4	25.9
250	17.3	36.3	35.7	31.1	29.6	29.2
300	16.8	35.0	33.5	34.3	33.1	32.6
400	15.9	34.3	32.3	40.1	37.7	38.0
500	15.2	34.1	31.6	45.3	42.5	43.3
600		30.0	28.0		47.0	47.0
650		30.0			49.0	49.0

FREQUENCY ¹ (MHZ)	NEAR END CROSS TALK (NEXT) MINIMUM DB/100 M			EQUAL LEVEL FAR END CROSS TALK (ELFEXT) MINIMUM DB/100 M		
	TIA-568-C.2 Standard	U6A650-R Typical	U6A650-P Typical	TIA-568-C.2 Standard	U6A650N-R Typical	U6A650N-P Typical
1	74.3	89.8	88.2	67.8	88.9	88.2
4	65.3	83.7	82.6	55.8	83.5	83.8
10	59.3	81.9	74.2	47.8	82.4	77.8
16	56.2	75.2	73.8	43.7	77.1	74.1
20	54.8	72.9	73.2	41.8	72.2	71.2
31.25	51.9	67.2	67.1	37.9	68.1	63.1
62.5	47.4	62.6	63.3	31.9	63.1	62.9
100	44.3	61.5	58.3	27.8	59.0	57.0
200	39.8	54.8	53.3	21.8	56.1	55.2
250	38.3	54.7	53.0	19.8	54.8	54.9
300	37.1	53.4	52.5	18.3	54.5	48.2
400	35.3	47.5	50.5	15.8	53.5	47.5
500	33.8	46.3	45.8	13.8	42.7	44.0
600		45.0	45.0		42.0	42.0
650		45.0	45.0		41.5	41.5

¹Value above 550Mhz are for informational purposes only

Technical Details

ITEM	UNIT	RISER	PLENUM	
Conductor DC Resistance	Max. Ohms/100 m	9.38	9.38	
Resistance Unbalance	Max. %	5	5	
Mutual Capacitance	Max. nF/100 m	5.6	5.6	
Capacitance Unbalance	Max. pF/100 m	330	330	
Delay Skew	Max. ns	45	45	
Nominal Velocity of Propagation	%	67	70	
Operating Temperature	°F (°C)	-4 to +140 (-20 to +60)	-4 to +167 (-20 to +75)	
Storage Temperature	°F (°C)	-4 to +176 (-20 to +80)	-4 to +194 (-20 to +90)	
Bending Radius		4 x Cable diameter	4 x Cable diameter	
Packaging:	Type	1 kft (305 m)	Reel	
	Weight	lb/kft (kg/km)	43 (65)	
	Packages Per Pallet		27	
Materials:	Conductors	23 AWG, Solid copper	23 AWG, Solid copper	
	Insulation	in (mm)	0.043 (1.1), HDPE	0.043 (1.1), FEP
	Jacket	in (mm)	0.268 (6.8), PVC	0.264 (6.7), LS-PVC (Plenum Rated)
Approvals:	Safety	UL 444, UL 1666	UL 444, NFPA 262	
	Performance	TIA-568-C.2 "Balanced Twisted-Pair Telecommunications Cabling and Components Standards"		