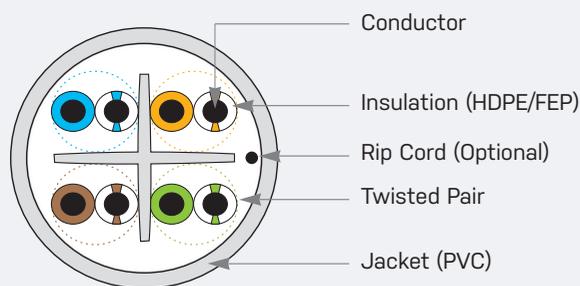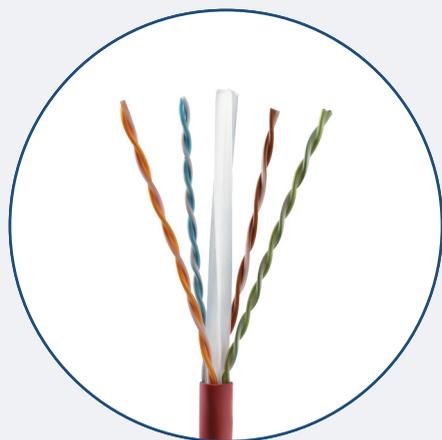# Category 6+ 550MHz UTP

U6550-004-xxxx

Description

- 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 and Backbone Cabling
- 155 Mbps ATM, 100 Mbps TP-PMD
- 10/100/1000 BASE-T (IEEE 802.3)
- 10GBASE-T up to max. 55 m
- ISDN, ADSL
- ATM LAN 1.2G
- PoE, PoE+ (IEEE 802.3af, IEEE 802.3at)

Certifications

Conductor

Insulation (HDPE/FEP)

Rip Cord (Optional)

Twisted Pair

Jacket (PVC)

Part Numbers

JACKET COLOR	DESCRIPTION	
	Category 6+ UTP Cable, 4-Pair, Riser Rated	Category 6+ UTP Cable, 4-Pair, Plenum Rated
Blue	U6550-004-RBL2	U6550-004-PBL2
White	U6550-004-RWH2	U6550-004-PWH2
Grey	U6550-004-RGY2	U6550-004-PGY2
Black	U6550-004-RBK2	U6550-004-PBK2
Yellow	U6550-004-RYL2	U6550-004-PYL2
Green	U6550-004-RGN2	U6550-004-PGN2
Red	U6550-004-RRD2	U6550-004-PRD2
Orange	U6550-004-ROR2	U6550-004-POR2
Violet	U6550-004-RVI2	U6550-004-PVI2

Rev. 07-2020

Performance Characteristics

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

FREQUENCY[2] (MHZ)	RETURN LOSS (RL) MINIMUM DB/100 M			INSERTION LOSS (ATTENUATION) MAXIMUM DB/100 M		
	TIA-568-C.2 Standard	U6550-R Typical	U6550-P Typical	TIA-568-C.2 Standard	U6550-R Typical	U6550-P Typical
1	20.0	32.47	29.11	2.0	1.67	1.64
4	23.0	35.22	32.41	3.8	3.28	3.23
10	25.0	35.37	33.16	6.0	5.33	5.31
16	25.0	36.36	34.00	7.6	6.77	6.76
20	25.0	40.57	37.15	8.5	7.61	7.58
31.25	23.6	40.31	37.04	10.7	9.58	9.58
62.5	21.5	38.18	36.64	15.4	13.91	13.92
100	20.1	38.12	34.00	19.8	17.75	17.86
200	18.0	36.48	33.25	29.0	25.57	25.87
250	17.3	33.96	33.24	32.8	28.70	29.52
300		33.08	32.48		31.70	32.91
400		32.82	29.54		36.63	38.09
500		30.00	27.00		37.60	39.00
550		29.00	26.00		38.00	40.00

FREQUENCY[2] (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	U6550-R Typical	U6550-P Typical	TIA-568-C.2 Standard	U6550-R Typical	U6550-P Typical
1	74.3	90.90	90.20	67.8	90.02	87.94
4	65.3	87.56	78.98	55.8	88.03	78.84
10	59.3	77.42	75.67	47.8	74.72	75.82
16	56.2	74.65	73.12	43.7	73.97	75.29
20	54.8	73.30	70.97	41.8	69.69	71.51
31.25	51.9	69.83	66.18	37.9	67.73	65.01
62.5	47.4	68.79	63.70	31.9	65.12	64.39
100	44.3	65.48	61.67	27.8	60.79	60.07
200	39.8	63.59	54.78	21.8	59.75	56.31
250	38.3	55.89	51.36	19.8	57.54	47.75
300		53.31	50.54		54.17	47.72
400		53.11	43.43		49.60	45.71
500		52.00	42.10		48.00	44.50
550		51.00	41.00		47.00	43.00

[2]Value above 250Mhz 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)	Reelex II	Reelex II
	Weight	lb/kft (kg/km)	24 (36)	26 (39)
	Packages Per Pallet		27	27
Materials:	Conductors		23 AWG, Solid copper	23 AWG, Solid copper
	Insulation	in (mm)	0.038 (0.97), HDPE	0.037 (0.95), FEP
	Jacket	in (mm)	0.236 (6.0), PVC	0.228 (5.8), 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"	