

Cable
UTP Cables
NextPower Catrgory 5E 4PPoE



Features

- 100W of Power and 1 Gigabit Ethernet Performance
- Tested 350 MHz
- PoE and PoE+ Ready
- Cable-id Alpha Numeric Code Printed
- Guaranteed 0.3 dB headroom for IL, ACR and PSACR

Ordering Information

Description	Color	Catalog Number	UPC Number
NextPower Category 5E 4PPoE, 4-Pair, UTP Cable	Yellow	C5ELPRY	662620619675

Listings

ANSI/TIA-568-C.2 (CATEGORY 5E 4PPoE)
 UL Listed
 UL Verified
 IEEE 802.3af (PoE), IEEE 802.3at (PoE+), IEEE 802.3bt (4PPoE)

Specifications

Wire	22 AWG Solid Annealed Copper
Primary Insulation	CMP:FEP
Primary Insulation	CMR Polyolefin
Cabling	4 Unshielded Twisted Pairs
Outer Jacket	Flame Retardant PVC

Performance

Installation Temperature	(-40C to +75C (-40F to +167F))
Operation Temperature	(-20C to +75C (-4F to +167F))

Applications

4PPoE – IEEE 802.3bt Type 3 and 4 draft D1.2
 HDBaseT Class A and B
 PoE Applications

Accessories

SPEEDGAIN Jacks, Category 5e	HXJ5E Series
SPEEDGAIN Patch Panel, Category 5e	HP5Exx (xx=Ports)
SPEEDGAIN Patch Cords, Category 5E	HC5Exxyy (xx = color, yy = length in feet)

TRANSMISSION SPECIFICATIONS - Worst Case								
TIA/EIA-568-B.2-1 Category 6 Compliant; ISO/IEC 11801, 2nd ed. Category 6 Compliant								
Freq. (MHz)	Ins. loss (dB/100m)	NEXT loss (dB)	PSNEXT loss (dB)	ACR (dB)	PSACR (dB)	ELFEXT (dB)	PSELFEXT (dB)	Return Loss (dB)
1	2.1	82.5	80.5	80.5	78.5	76.0	73.0	20.2
4	3.8	73.5	71.5	69.8	67.8	64.0	61.0	24.2
8	5.3	69.0	67.0	63.8	61.8	57.9	54.9	26.7
10	5.9	67.5	65.5	61.7	59.7	56.0	53.0	25.2
16	7.4	64.4	62.4	57.1	55.1	51.9	48.9	25.2
31.25	10.5	60.1	58.1	49.7	47.7	46.1	43.1	24.8
62.5	15.0	55.6	53.6	40.6	38.6	40.1	37.1	22.7
100	19.3	52.5	50.5	33.3	31.3	36.0	33.0	22.3
155	24.5	49.6	47.6	25.2	23.2	32.2	29.2	20.9
200	28.2	48.0	46.0	19.9	17.9	30.0	27.0	20.2
250	32.0	46.5	44.5	14.7	12.7	28.0	25.0	19.8
300*	35.4	45.3	43.3	-	-	26.5	23.5	19.5
350*	38.7	44.3	42.3	-	-	25.1	22.1	19.2
400*	41.8	43.5	41.5	-	-	24.0	21.0	18.7
500*	45.6	42.0	41.0	-	-	22.0	19.0	18.2
550*	47.6	41.3	40.4	-	-	21.1	18.8	18.1
600*	49.0	40.6	39.1	-	-	20.7	18.4	17.8
650*	49.5	40.0	38.6	-	-	20.1	18.1	17.5
750*	56.2	39.1	37.9	-	-	19.5	17.7	17.1

* Frequencies beyond the TIA and ISO requirements are for information only.

