

# CCT50U

## Contractor CAT5E U/UTP Networking cable



The CCT50U is a CAT5E installation networking cable featuring a Flamoflex™ outer jacket compliant to the IEC 60332-1 standard regarding fire and flammability resistance in public installations. The Flamoflex™ material is specifically designed with installers convenience in mind, offering a smooth and durable outer jacket for easy installation and pulling.

The conductor section consists of 4 pair solid 24 AWG conductors guaranteeing an optimal signal transmission.

CCT50U Supports 10Base-T, 100Base-TX and 1000Base-T gigabit.



INSTALL

### Physical Characteristics

Type of cable	CAT5E U/UTP Networking cable
Inner conductor	BC 1 x 0.5 mm (OFC)
Inner conductor section	0.20 mm <sup>2</sup>
Number of conductors	8 (4 pairs)
Insulation	HDPE Ø 0.88 mm
Insulation Colour	Blue & Blue / White Orange & Orange / White Green & Green / White Brown & Brown / White
Twisting lay length	≤ 30mm
Shielding	None
Separator	None
Outer Jacket	NHFR
Outer Jacket Colour	Black
Outer Jacket Dimensions	Ø 4.8 mm
American Wire Gauge	24 AWG

### Standards & regulations

RoHS2 compliant	According EU Directive 2011/65/EU
Reach compliant	According EC 1907/2006
Flammability test	According IEC 60332-1
Indoor / outdoor	Indoor
Circuit integrity	n/a
Smoke emissions	According IEC 61034
Zero halogen compounds	According EN 50267-2-1, IEC 60754
Cabling standard	ANSI TIA-EIA 568B

### Mechanical Characteristics

Temperature range	fixed installation	-20° C till +75° C
	flexible installation	-15° C till +60° C
Bending radius	fixed installation	4 x cable Ø OD
	flexible installation	6 x cable Ø OD

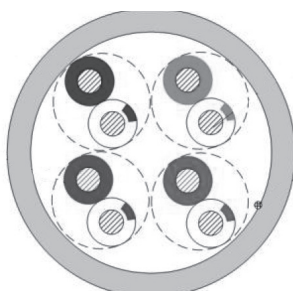
### Electrical Characteristics

Dielectricum $\Sigma r$	HDPE
Max. conductor DC resistance	93.8 ( $\Omega$ /Km)
Max. conductor DC resistance unbal.	5%
Nom. mutual capacitance	□5.6 (nF/100m)
Pair to ground capacitance unbalance	□330 (pF/100m)
Nom. Velocity of propagation	69 %
Max. Delay / Skew	45 (ns/100m)
Dielectric strenght	1.5 (KV/1min. DC)
Nom. shield DC resistance	( $\Omega$ /Km)
Characteristic impedance	100 $\Omega$ +/-15 $\Omega$
Voltage rating	300V

### Ordering & packaging

CCT50U/3	NHFR, IEC 60332-1, Black	1000ft / 305m reel-in-box
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### Cross section



### Recommended accessories & connections

RJ45 Connector	Procab	
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# Additional specifications



Frequency	Characteristic Impedance Upper limit	Characteristic Impedance Lower limit	ATT	RL	NEXT	PS NEXT	ELFNEXT	PS ELFNEXT	PD
(MHz)	Zu ( $\Omega$ )	Zl ( $\Omega$ )	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)
1	122.2	81.8	2.0	20.0	65.3	62.3	63.8	60.8	570.0
4	115.2	86.8	4.1	23.0	56.3	55.3	51.7	48.7	552.0
8	112.6	88.8	5.8	24.5	51.8	48.8	45.7	42.7	546.7
10	111.9	89.4	6.5	25.0	50.3	47.3	43.8	40.8	545.4
16	111.9	89.4	8.2	25.0	47.3	44.3	39.7	36.7	543.0
20	111.9	89.4	9.2	25.0	48.8	42.8	37.7	34.7	542.0
25	112.9	88.5	10.4	24.3	44.3	41.3	35.8	32.8	541.2
31.25	114.1	88.7	11.7	23.6	42.9	39.9	33.9	30.9	540.4
62.5	118.3	84.5	17.0	24.5	38.4	35.4	27.8	24.8	538.6
100	121.9	82.0	22.0	20.1	35.3	32.3	23.8	20.8	537.6