

CCT50F

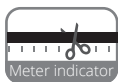
Contractor CAT5E F/UTP Networking cable



The CCT50F 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, while the overall aluminum foil shielding with drain wire offers improved immunity against noise and interference caused by external devices.

CCT50F Supports 10Base-T, 100Base-TX and 1000Base-T gigabit.



INSTALL

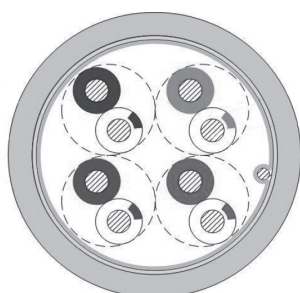
Physical Characteristics

Type of cable	CAT5E F/UTP Networking cable
Inner conductor	BC 1 x 0.5 mm (OFC)
Inner conductor section	0.20 mm ²
Number of conductors	8 (4 pairs)
Insulation	HDPE Ø 1.01 mm
Insulation Colour	Blue & Blue / White Orange & Orange / White Green & Green / White Brown & Brown / White
Twisting lay length	≤ 30mm
Shielding	Overall Al-foil + Drain wire (26 AWG) 100% coverage - 25% Overlap
Separator	None
Outer Jacket	NHFR
Outer Jacket Colour	Black
Outer Jacket Dimensions	Ø 6.0 mm
American Wire Gauge	24 AWG

Electrical Characteristics

Dielectricum Σr	HDPE
Max. conductor DC resistance	93.8 (Ω /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	65 %
Max. Delay / Skew	45 (ns/100m)
Dielectric strenght	1.5 (KV/1min. DC)
Nom. shield DC resistance	(Ω /Km)
Characteristic impedance	100 Ω +/-15 Ω
Voltage rating	300V

Cross section



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

Ordering & packaging

CCT50F/3	NHFR, IEC 60332-1, Black	1000ft / 305m reel-in-box
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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 (Ω)	Zl (Ω)	(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