

CCT50F

Networking cable - CAT5E - F/UTP - solid 0.20 mm² - 24 AWG - FlamoFlex™

Highlights:

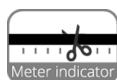
- FlamoFlex™ IEC 60332-1 installation jacket
- Al-foil overall shielding
- 100 Mhz performance, up to 1000Base-T

Product information:

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.



Properties:



Meter indicator



LSHF



IEC 60332



HD Base T

Compliant



CAT5E

100 MHz



Shielded

Inner Conductors:



SOLID OXYGEN FREE
COPPER

Shielding:



ALUMINUM
FOIL

Usage:



Install

Physical Characteristics:

Inner conductor	Insulation	Material	HDPE 1.01 mm (Ø)
		Colours	Green / White & Green ; Blue / White & Blue ; Orange / White & Orange ; Brown / White & Brown
	Shielding	Aluminium foil	Al-mylar, 100% coverage - 25% Overlap
		Drain wire	TC 1 x 0.4 mm (Ø) (OFC)
Outer jacket	Material		NHFR 6.0 mm (Ø)
	Colours		Black
Type of cable			F/UTP CAT5E Networking cable
Inner conductor	Material		BC 1 x 0.5 mm (Ø) (OFC)
	Section		0.20 mm²
Separator			None
Inner conductor	American Wire Gauge		24 AWG
	Number of conductors		8 (4 pairs)
	Conductor twisting		Lay length ≤ 30 mm

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

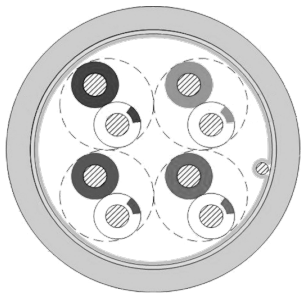
Electrical Characteristics:

Dielectric strength	1.5 (KV / 1 min. DC)
Max. Delay / Skew	45 (ns / 100 m)
Rated voltage	300 V
Characteristic impedance	100 Ω ± 15 Ω
Nom. mutual capacitance	≤ 5.6 (nF / 100 m)

Mechanical Characteristics:

Temperature range	Fixed installation	- 20 °C till + 75 °C
	Flexible installation	- 15 °C till + 60 °C
Bending radius	Fixed installation	4 x outer diameter
	Flexible installation	6 x outer diameter

Cross sections:



Additional specifications:

Frequency (MHz)	Characteristic Impedance Upper limit - Zu (Ω)	Characteristic Impedance Lower limit - Zl (Ω)	ATT (dB/100m)	RL (dB Min)	NEXT (dB Min)	PS NEXT (dB Min)	ELFNEXT (dB Min)	PS ELFNEXT (dB Min)	PD (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