

PCT50SF

DuraFlex™ CAT5E SF/UTP Networking cable



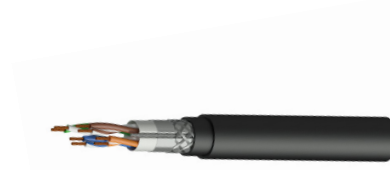
The PCT50SF is a CAT5E networking cable specifically designed for the growing number of digital applications in the professional AV industry.

Unlike any other CAT5E cable available on the market, the PCT50SF features DuraFlex™ outer jacket constructed using a double-extrusion technique with an polyurethane outer and PVC inner jacket. The polyurethane outer jacket offers an excellent resistance against mechanical wear due to pulling, bending, cracking and UV exposure, while the PVC inner jacket keeps it easy to handle.

The conductor section consists of 4 pairs with stranded 24 AWG conductors which guarantees an optimal signal transmission while the double shielding consisting of an overall aluminum foil surrounded by a braiding offers a high immunity to noise and interference caused by external devices.

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

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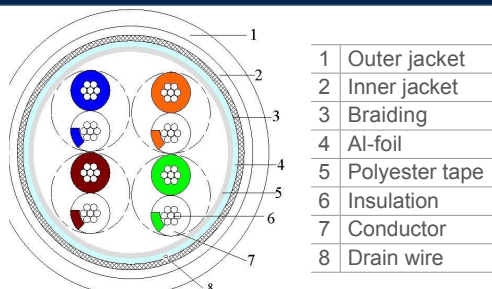
Physical Characteristics

Type of cable	CAT5E SF/UTP Networking cable
Inner conductor	BC 7 x 0.20 mm (OFC)
Inner conductor section	0.22 mm ²
Number of conductors	8 (4 pairs)
Insulation	HDPE Ø 1.14 mm
Insulation colour	Blue & Blue / White Orange & Orange / White Green & Green / White Brown & Brown / White
Twisting lay length	≤ 30mm
Shielding 1	Individual Al-foil 100% coverage - 25% Overlap
Shielding 2	Braiding TC 16 x 4 x 0.1 mm > 66% coverage
Inner jacket	Soft PVC
Inner jacket dimensions	Ø 6.6 mm
Separator	Polyester tape
Outer jacket	Polyurethane (PUR)
Outer jacket colour	Black
Outer jacket dimensions	Ø 8.2 mm
American Wire Gauge	24 AWG

Electrical Characteristics

Dielectricum Σr	HDPE
Max. conductor DC resistance	145 (Ω/Km)
Max. conductor DC resistance unbal.	2%
Nom. mutual capacitance	□5.6 (nF/100m)
Pair to ground capacitance unbalance	□160 (pF/100m)
Nom. Velocity of propagation	65 %
Max. Delay / Skew	45 (ns/100m)
Dielectric strength	1.5 (KV/1min. DC)
Nom. shield DC resistance	(Ω/Km)
Characteristic impedance	100Ω +/-15Ω
Voltage rating	72V

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 & outdoor
Cabling standard	ISO/IEC11801; IEC61156; UL444; ANSI/TIA-568-C.2

Mechanical Characteristics

Temperature range	fixed installation	-20° C till +75° C
	flexible installation	-15° C till +60° C
Bending radius	fixed installation	8 x cable Ø OD
	flexible installation	10 x cable Ø OD

Ordering & packaging

PCT50SF/1	IEC 60332-1, Black	100 m wooden reel
PCT50SF/3	IEC 60332-1, Black	300 m wooden reel

Recommended accessories & connections

Ethercon male	Neutrik	NE8MC series
Ethercon chassis	Neutrik	NE8FDV series
Ethercon chassis	Neutrik	NE8FDP series

Additional specifications

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Frequency	Characteristic Impedance Upper limit	Characteristic Impedance Lower limit	ATT	RL	NEXT	PS NEXT	ELFEXT (ACR-F)	PS ELFEXT (PS ACR-F)	PD
(MHz)	Zu (Ω)	Zl (Ω)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)
4	115.2	86.8	6.0	23.0	56.3	53.5	52.0	49.0	552.0
8	112.6	88.8	8.5	24.5	51.8	48.8	45.9	42.9	546.7
10	111.9	89.4	9.5	25.0	50.3	47.3	44.0	41.0	545.4
16	111.9	89.4	12.1	25.0	47.2	44.2	39.9	36.9	543.0
20	111.9	89.4	13.5	25.0	45.8	42.8	38.0	35.0	542.0
25	113.2	88.3	15.2	24.2	44.3	41.3	36.0	33.0	541.2
31.25	114.6	87.2	17.1	23.3	42.9	39.9	34.1	31.1	540.4
62.5	120.2	83.2	24.8	20.7	38.4	35.4	28.1	25.1	538.6
100	125.3	79.8	32.0	19.0	35.3	32.3	24.0	21.0	537.6