CCT70S
Contractor CAT7 S/FTP Networking cable

PROCAB

★★★★☆

The CCT70S is a CAT7 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 of the CCT70S consists of 4 pairs with stranded 23 AWG conductors which are individually shielded by an aluminum foil while the entire section is surrounded by an overall braiding. Due to the double shielding, better performance in terms of crosstalk and system noise is achieved resulting in a higher bandwidth and improved immunity against noise and interference caused by external devices.

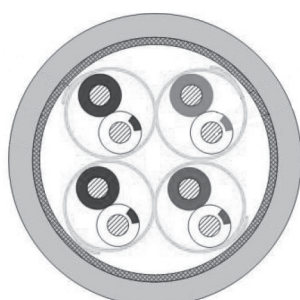Supports 10Base-T, 100Base-TX and 1000Base-T gigabit networks.

LSHF | IEC 60332 | Meter indicator

INSTALL

Physical Characteristics

Type of cable	CAT7 S/FTP Networking cable
Inner conductor	BC 1 x 0.566 mm (OFC)
Inner conductor section	0.25 mm²
Number of conductors	8 (4 pairs)
Insulation	Foam PE Ø 1.30 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 10 x 8 x 0.08 mm
	> 40% coverage
Separator	None
Outer Jacket	NHFR
Outer Jacket Colour	Black
Outer Jacket Dimensions	Ø 7.1 mm
American Wire Gauge	23 AWG

Electrical Characteristics

Dielectricum Σr	Foamed PE
Max. conductor DC resistance	95 (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	74 %
Max. Delay / Skew	5 (ns/100m)
Dielectric strenght	1.5 (KV/1min. DC)
Nom. shield DC resistance	(Ω/Km)
Characteristic impedance	100Ω +/-15Ω
Voltage rating	300V

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	IEC 61156-5 & ISO/IEC 11801

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

CCT70F/3	NHFR, IEC 60332-1, Black	1000ft / 305m reel-in-box

Recommended accessories & connections

RJ45 Connector	Procab	

Cross section

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)
4	115.2	86.8	3.74	23.0	78.0	75.0	75.0	75.0	552.0
8	112.6	88.8	5.24	24.5	78.0	75.0	74.2	74.2	546.7
10	111.9	89.4	5.68	25.0	78.0	75.0	72.3	72.3	545.4
16	111.9	89.4	7.41	25.0	78.0	75.0	68.2	68.2	543.0
20	111.9	89.4	8.29	25.0	78.0	75.0	66.3	66.3	542.0
25	112.9	88.5	9.29	24.3	78.0	75.0	64.3	64.3	541.2
31.25	114.1	87.7	10.41	23.6	78.0	75.0	62.4	62.4	540.4
62.5	118.3	84.5	14.88	21.5	75.5	72.5	56.4	56.4	538.6
100	121.9	82.0	19.02	20.1	72.4	69.4	52.3	52.3	537.6
150	125.7	89.6	23.56	18.9	69.8	66.8	48.8	48.8	536.9
200	128.8	77.6	27.47	18.0	67.9	64.9	46.3	46.3	536.5
250	131.5	76.0	30.97	17.3	66.4	63.4	44.3	44.3	536.3
300	131.6	76.0	34.19	17.3	65.2	62.2	42.8	42.8	536.1
600	131.6	76.0	50.10	17.3	60.7	57.7	36.7	36.7	535.5