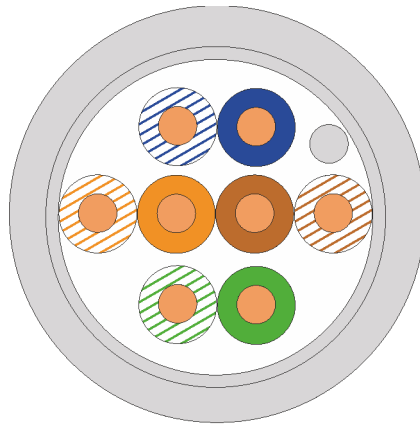


Product Information

BKT 285 cat. 5e F/UTP installation cable PVC

Card No.: PI_BKT 285 FUTP cat.5e Eca_01.20



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10BASE-T; 100BASE-T; 1000BASE-T; 2.5GBASE-T
IEEE 802.5: 16MB; ISDN; TPDDI; ATM

Standards

- EN 50173-1
- EN 50288-2-1
- EN 50399
- EN 50575
- ISO/IEC 11801-1
- IEC 61156-5
- ANSI/TIA-568.2

Flame Resistance

PVC: IEC 60332-1

CPR: Class Eca

EN 50399, EN 50575

Product Information

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Construction

Conductor	Bare copper wire \varnothing 0,5 mm (AWG24)
Insulation	Polyethylene \varnothing 1,1 mm
Twisting	2 pairs to the core
Cable lay up	4 pairs to the core
Screen	Al-laminated plastic foil, drain wire AWG 26 tinned
Sheath	PVC grey RAL 7035

Mechanical Properties

Bending radius	installation	4 x D
	installed	8 x D
Temperature range	during operation	-20°C to +60°C
	during installation	0°C to +50°C

Electrical Properties

at 20°C

DC Loop Resistance		$\leq 188 \Omega/\text{km}$
Resistance unbalance		$\leq 2\%$
Insulation resistance	[500 V]	$\geq 5000 \text{ M}\Omega\text{km}$
Mutual capacitance	[1000 Hz]	nom. 56 nF/km
Capacitance unbalance	[pair/ground]	$\leq 1600 \text{ pF}/\text{km}$
Characteristic impedance	[100 MHz]	$(100 \pm 15) \Omega$
Nominal Velocity of Propagation	NVP	75 %
Propagation Delay		$\leq 555 \text{ ns}/100\text{m}$
Delay Skew		$\leq 50 \text{ ns}/100\text{m}$
Test Voltage	[DC, 1 min]	1000 V
Coupling attenuation		$\geq 40 \text{ dB}$
Transfer impedance	at 1 MHz	$\leq 40 \text{ m}\Omega/\text{m}$
	at 10 MHz	$\leq 63 \text{ m}\Omega/\text{m}$
	at 30 MHz	$\leq 109 \text{ m}\Omega/\text{m}$

Useful Properties

Fire Load	PVC	430 MJ/km	0,119 kWh/m
Tensile force		80 N	

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Transmission Characteristics

to cat. 5e at 20°C

Frequency (MHz)	Attenuation (dB/100m)	RL (dB)	NEXT (dB)	PS NEXT (dB)	ACR-N (dB/100m)	PS ACR-N (dB/100m)	ACR-F (dB/100m)	PS ACR-F (dB/100m)
1	2,0	20,0	65,3	62,3	63,3	60,3	63,8	60,8
4	4,1	23,0	56,3	53,3	52,2	49,2	51,8	48,8
8	5,8	24,5	51,8	48,8	46,0	43,0	45,7	42,7
10	6,5	25,0	50,3	47,3	43,8	40,8	43,8	40,8
16	8,2	25,0	47,2	44,2	39,0	36,0	39,7	36,7
20	9,3	25,0	45,8	42,8	36,5	33,5	37,8	34,8
25	10,4	24,3	44,3	41,3	33,9	30,9	35,8	32,8
31,25	11,7	23,6	42,9	39,9	31,2	28,2	33,9	30,9
62,50	17,0	21,5	38,4	35,4	21,4	18,4	27,9	24,9
100	22,0	20,1	35,3	32,3	13,3	10,3	23,8	20,8

Technical Data

Product code	Cable type	Product name	Declaration of Performance (DoP)	Outer diameter (mm)	Weight (kg/km)
10150103.305	J-02Y(St)Y 4x2x0.5	Cable F/UTP PVC cat.5e BKT 285 wire grey 24AWG Eca	12142322	5,9	36