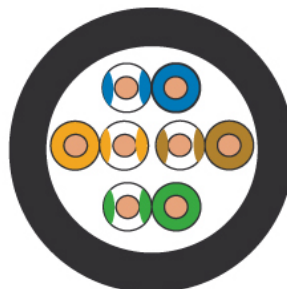


SuperCat OUTDOOR CAT 5e U/UTP

Unscreened Twisted Pair 100MHz



Application

Generic cabling systems

Standards

EN 50173-1; ISO/IEC 11801; EN 50288-3-1; IEC61156-5; EIA/TIA 568-B.2

Water penetration rating

EN50289-4-2 metode B

Construction

Conductor	Solid copper wire AWG24
Insulation	PE, Ø 1,0 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs
Lay up diameter	Ø 4,3 mm
Sheath	UV resistant polyethylene (PE)
Filling material	Waterproof gel to prevent moisture migration

Mechanical Properties

Bending radius	Installation	8 x D
	Installed	4 x D
Temperature range	During operation	-55°C to + 60°C
	During installation	-20°C to + 50°C
Fire load	4 pair PE	751 MJ/km
Maximum tensile load, installation	During installation	100N
	Installed	-

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Electrical Properties

at 20°C

DC loop resistance		≤ 188 Ω/km
Resistance unbalance		< 2 %
Characteristic impedance	1 - 100MHz	100 ± 15 Ω
Insulation resistance	(500V)	> 5000 MΩxkm
Capacitance	at 800 Hz	Nom. 52 nF/km
Capacitance unbalance	(pair to ground)	Nom. < 300 pF/km
Nominal Characteristic impedance	at 100 MHz	100 ± 5 Ω
Nominal velocity of propagation		0,64 c
Propagation delay	at 100MHz	Nominal 530 ns/100m
Delay skew	< 100 MHz	Nominal < 20 ns/100 m

Nominal Transmission characteristics

at 20°C

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	Returnloss (dB)	PS-NEXT (dB)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)
1	1,8	77	75	-	74	72	75	72
4	3,6	70	66	27	67	63	62	59
10	6,0	65	59	30	62	56	56	53
16	7,6	64	56	30	61	53	52	49
20	8,6	62	53	30	59	50	50	47
31.25	11,0	59	48	30	56	45	47	44
62.50	16,0	55	39	30	52	36	43	40
100	20,7	48	27	25	45	24	38	35
125	23,8	48	24	25	45	21	36	33
175	28,8	45	16	24	42	13	30	27
200	31,2	40	9	23	37	6	25	22

Technical Data

Description	Variant	Colour	Outher diameter (D) mm	Delivery form	Weigth kg/km	DCD No.		El. No	DCN No.
Cat 5E U/UTP Outdoor 4x2/ AWG24	PE	Black	5,9	Drum 305m	35	1000840	00305DP	1089219	799059