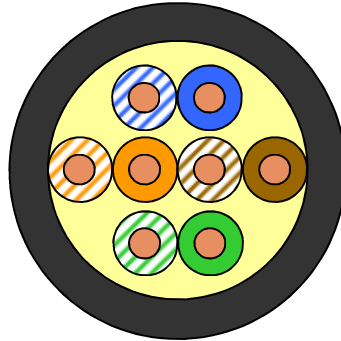


ICS IE SuperCat 5 24 Cat.5e

U/UTP Installation Cable for Outdoor use



Application

Generic cabling systems. Outdoor installations. Filled with compound to prevent water penetration

Standards

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

Water penetration rating

EN50289-4-2 methode B

Construction

Conductor	Solid bare 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
Cable core filling	Waterproof compound to prevent moisture migration. To prevent water penetration and to ensure electrical properties even in continuous wet conditions.
Sheath	PE, Black, UV stabilized

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	-

ICS IE SuperCat 5 24 Cat.5e

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
Coupling attenuation		≥ 40 dB

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	Colour	Outer diameter (D) mm	Weight kg/km	Material code
SuperCat 24 Cat.5 U/UTP 4P PE	Black	5,9	35	1000840

Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
SuperCat 24 C5e U/UTP 4P OUTDOOR	1000840	60015393	60015393
SuperCat 24 C5e U/UTP 4P OUTDOOR 305DP	1000840-00305DP	60015393	60010244
SuperCat 24 C5e U/UTP 4P OUTDOOR 2000DP	1000840-00305DP	60015393	60015396

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