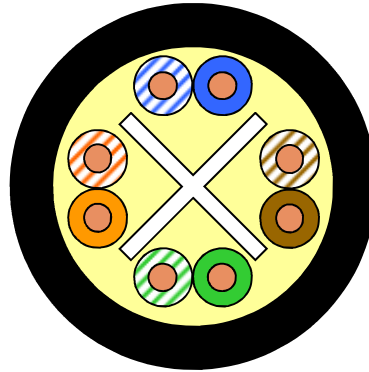


# ICS IE SuperCat 6 23 Cat.6

## U/UTP Installation Cable for outdoor use



### Application

Outdoor installations. Filled with compound to prevent water penetration.  
Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;  
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

### Standards

EIA/TIA-568-B.2-1 6/2002.  
ISO/IEC 11801; IEC 61156-5  
EN 50173-1, EN 50288-6-1

### Water penetration rating

IEC 60794-1-2F5, methode B

### Construction

Conductor	Solid bare copper wire Ø 0.58 mm (AWG23)
Insulation	Polyethylene, Ø 1.1 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core non metallic cross separator (spline)
Cable core filling	Waterproof compound to prevent moisture migration. To ensure electrical properties even in continuous wet conditions.
Sheath	PE, Black, UV stabilized

### Mechanical properties

Minimum bending radius	Installation	8 x D
	Installed	4 x D
Temperature range	during operation	-55°C up to + 60°C
	during installation	-15°C up to + 50°C
Max tensile load	during operation	-
	during installation	100N

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### Electrical properties

at 20°C

DC loop resistance	≤ 176 Ω /km
Resistance unbalance	≤ 2%
Insulation resistance (500 V)	≥ 5000 MΩ *km
Capacitance at 800 Hz	Nom. 48 nF/km
Capacitance unbalance (pair to ground)	≤ 1500 pF/km
Mean characteristic impedance 100 MHz	100 ± 5 Ω
Nominal velocity of propagation	Approx. 67 %
Propagation delay	Nominal 535 ns/100m
Delay skew	Nominal 20 ns/100m
Test voltage (DC, 1 min) Core/Core	1000 V
Coupling attenuation	≥ 40 dB

### Nominal transmission characteristics

at 20°C

F (MHz)	Attenuation (dB/100m)		NEXT (dB)		PS-NEXT (dB) (*)		ACR (dB/100m)		PS-ACR (dB/100m)		ELFEXT (dB/100m)		PS-ELFEXT (dB/100m)		Return loss (dB)
	max.	Nom.	min.	nom.	min.	Nom.	Min.	Nom.	Min.	Nom.	min.	Nom.	min.	Nom.	min.
1	2.1	1.9	74	78	72	75	72.0	76.1	70.0	73.1	68	82	65	80	20
4	3.8	3.8	65	69	63	66	61.2	65.2	59.2	62.2	56	70	53	68	23
10	6.0	6.0	59	63	57	60	53.0	57.0	51.0	54.0	48	62	45	60	25
16	7.6	7.6	56	60	54	57	48.4	52.3	46.4	49.3	44	58	41	56	25
20	8.5	8.5	55	59	53	56	46.5	50.0	44.5	47.0	42	56	39	54	25
31.2	10.7	10.7	52	56	50	53	41.3	45.0	39.3	42.0	38	52	35	50	23.6
62.5	15.5	15.1	47	51	45	48	31.5	36.0	29.5	33.0	32	46	29	44	21.5
100	19.9	19.1	44	48	42	45	24.1	28.9	22.1	25.9	28	42	25	40	20.1
125	22.5	21.3	43	47	41	44	20.5	25.2	18.5	22.2	26	40	23	38	19.5
155.5	25.4	23.8	42	45	40	42	16.6	21.3	14.6	18.3	24	38	21	36	18.8
175	27.1	25.3	41	44	39	41	13.9	19.1	11.9	16.1	23	37	20	35	18.4
200	29.2	27.0	40	44	38	41	10.8	16.5	8.8	13.5	22	36	19	34	18.0
250	33.0	32.0	38	42	36	39	5.0	10.0	2.0	7.0	20	34	17	32	17.3
300		36.1		41		38		4.8		1.8		32		30	-
400		41.7		39		36		-2.7		-5.7		30		28	-

### Product order data

Description	Colour	Outer dia- meter mm	Fire load MJ/km	Weight kg/km	Material code
SuperCat 23 Cat.6 U/UTP 4P PE	Black	7,2	-	55	1000968

### Product Code Table

Product Description	Product Code	PG Reference Code	PG Part Number
SuperCat 23 C6 U/UTP 4P OUTDOOR 305DP	1000968-00305DP	60016055	<b>60010243</b>
SuperCat 23 C6 U/UTP 4P OUTDOOR		60016055	<b>60016055</b>

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