

874021504/10 | CS44P-IO GRY C6A 4/23 U/UTP RL 1KFT



CS44P-IO Indoor/Outdoor Category 6A U/UTP Cable, plenum, outdoor rated, gray jacket, 4 pair count, 1000 ft (305 m) length reel

Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Portfolio	CommScope®
Product Type	Twisted pair cable

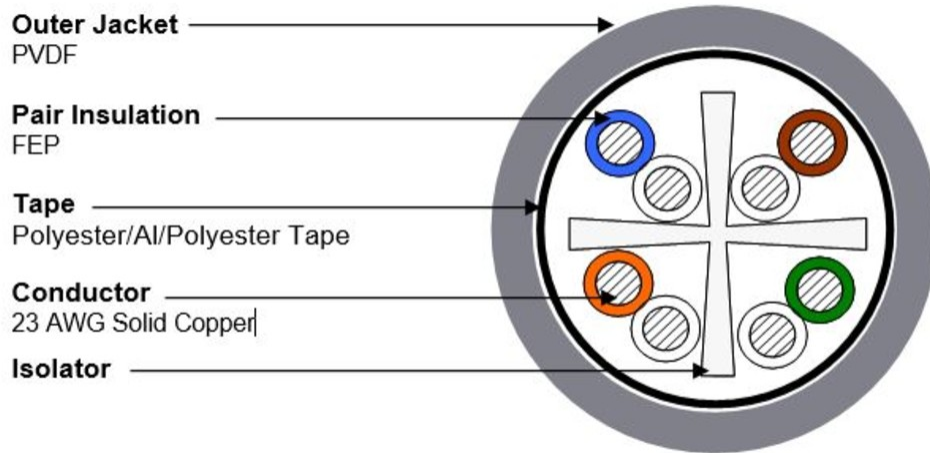
General Specifications

Product Number	CS44P-IO
ANSI/TIA Category	6A
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	Gray
Pairs, quantity	4
Separator Type	Isolator
Transmission Standards	ANSI/TIA-568-D.2

Dimensions

Cable Length	304.8 m 1000 ft
Diameter Over Insulated Conductor	1.115 mm 0.044 in
Diameter Over Jacket, nominal	6.858 mm 0.27 in
Jacket Thickness	0.457 mm 0.018 in
Conductor Gauge, singles	23 AWG

Cross Section Drawing



Electrical Specifications

dc Resistance Unbalance, maximum	4 %
dc Resistance, maximum	8 ohms/100 m 2.438 ohms/100 ft
Delay Skew, maximum	45 ns
Dielectric Strength, minimum	1500 Vac 2500 Vdc
LP (Limited Power) Rating	0.7 A
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	70 %
Operating Frequency, maximum	500 MHz
Remote Powering	Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A
Safety Voltage Rating	300 V

Electrical Cable Performance

CS	CommScope	NEXT	Near End Crosstalk (dB/100m)
STD	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above	PSNEXT	Power Sum Near End Crosstalk (db/100m)
TYP	Typical Electrical Performance	ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
IL	Insertion Loss (dB/100m)	RL	Return Loss (dB)
ACR	Attenuation to Crosstalk Ratio (dB/100m)	ELTCTL	Equal Level Transverse Conversion Transfer Loss (dB/100m)
PSACR	Power Sum Attenuation to Crosstalk Ratio (dB/100m)		
PSACRF	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)		
TCL	Transverse Conversion Loss (dB/100m)		

Freq. MHz	IL		NEXT		ACR		PSNEXT		PSACR		ACRF		PSACRF		RL	
	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP
1	2.1	1.8	74.3	90.6	72.2	88.8	72.3	88.3	70.2	86.5	67.8	82.1	64.8	80.3	20	32.2
4	3.8	3.6	65.3	82.4	61.5	78.8	63.3	80.2	59.5	76.6	55.8	70.1	52.8	68.4	23	33.9
8	5.3	5.1	60.8	77.6	55.4	72.5	58.8	75.8	53.4	70.7	49.7	64.1	46.7	62.3	24.5	36.7
10	5.9	5.7	59.3	76.4	53.4	70.7	57.3	74.4	51.4	68.7	47.8	62.2	44.8	60.4	25	37.7
16	7.5	7.3	56.2	73.1	48.8	65.9	54.2	71.3	46.8	64	43.7	58.2	40.7	56.4	25	38.7
20	8.4	8.1	54.8	71.5	46.4	63.4	52.8	69.7	44.4	61.6	41.8	56.4	38.8	54.5	25	38.7
25	9.4	9.1	53.3	70.2	44	61.1	51.3	68.3	42	59.2	39.8	54.5	36.8	52.6	24.3	35.5
31.25	10.5	10.2	51.9	68.6	41.4	58.4	49.9	66.7	39.4	56.5	37.9	52.7	34.9	50.7	23.6	37.2
62.5	15	14.6	47.4	64.2	32.4	49.6	45.4	62.3	30.4	47.7	31.9	46.6	28.9	44.7	21.5	34.6
100	19.1	18.6	44.3	60.8	25.2	42.1	42.3	59	23.2	40.3	27.8	42.5	24.8	40.5	20.1	30.3
155	24.1	23.4	41.4	58.4	17.4	35	39.4	56.4	15.4	33	24	38.9	21	37	18.8	30.8
200	27.6	26.8	39.8	56	12.2	29.2	37.8	54.2	10.2	27.4	21.8	36.6	18.8	34.6	18	30
250	31.1	30.1	38.3	54.3	7.3	24.2	36.3	52.5	5.3	22.3	19.8	34.6	16.8	32.6	17.3	30.5
300	34.3	33.1	37.1	53.1	2.9	19.9	35.1	51.2	0.9	18.1	18.3	33.1	15.3	31.2	16.8	31.1
350	37.2	36	36.1	51.8	-1.1	15.8	34.1	49.9	-3.1	13.9	16.9	31.9	13.9	29.9	16.3	31.7
400	40.1	38.8	35.3	50.8	-4.8	12	33.3	48.8	-6.8	10	15.8	30.6	12.8	28.6	15.9	31.5
500	45.3	43.6	33.8	47.9	-11.4	4.3	31.8	45.8	-13.4	2.2	13.8	28.7	10.8	26.7	15.2	32
550		43.8		48		4.1		45.9		2		28.6		26.7		31.9
650		50.2		43.5		-6.7		41.5		-8.8		25.7		23.5		25.3

Material Specifications

Conductor Material	Bare copper
Insulation Material	FEP
Jacket Material	PVDF
Separator Material	FEP
Tape Material	Poly/Aluminum/Poly

Mechanical Specifications

Pulling Tension, maximum 11.34 kg | 25 lb

Environmental Specifications

Installation temperature	-25 °C to +75 °C (-13 °F to +167 °F)
Operating Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Environmental Note	Cable is not suitable for direct burial applications Cable jacket must remain unabraded to avoid water ingress This cable is intended for installation in below-grade conduit, duct and wet environments Water must not be allowed to ingress into the cable ends
Environmental Space	Indoor/Outdoor Plenum Sunlight resistant
Temperature Rating, ETL	105 °C 221 °F
Flame Test Method	CMP/FT6 NEC Article 800 NFPA 262 UL 444 UL 910
Safety Standard	ANSI/ICEA S-100-685
Smoke Test Method	CMP/FT6

Packaging and Weights

Cable weight	42.859 kg/km 28.8 lb/kft
Packaging Type	Reel