



Product Classification

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

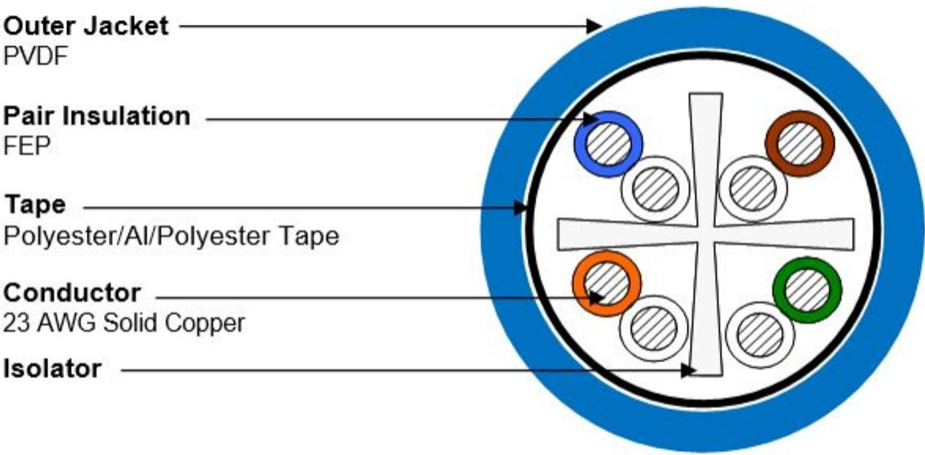
General Specifications

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	Blue
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 Performance

CS CommScope value	IL Insertion Loss (dB/100m)	ACR Attenuation to Crosstalk Ratio (dB/100m)
Std Standard value	RL Return Loss (dB)	ACRF Attenuation to Crosstalk Ratio - Far End (dB/100m)
(listed under the Transmission Standards in the Electrical Specifications above)	NEXT Near End Crosstalk (dB/100m)	PSACR Power Sum Attenuation to Crosstalk Ratio (dB/100m)
Typ Typical value	PSNEXT Power Sum Near End Crosstalk (dB/100m)	PSACRF Insertion Loss (dB/100m)

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RL 1KFT

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

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RL 1KFT

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