

Product Classification

Regional Availability	North America
Portfolio	Uniprise®
Product Type	Twisted pair cable

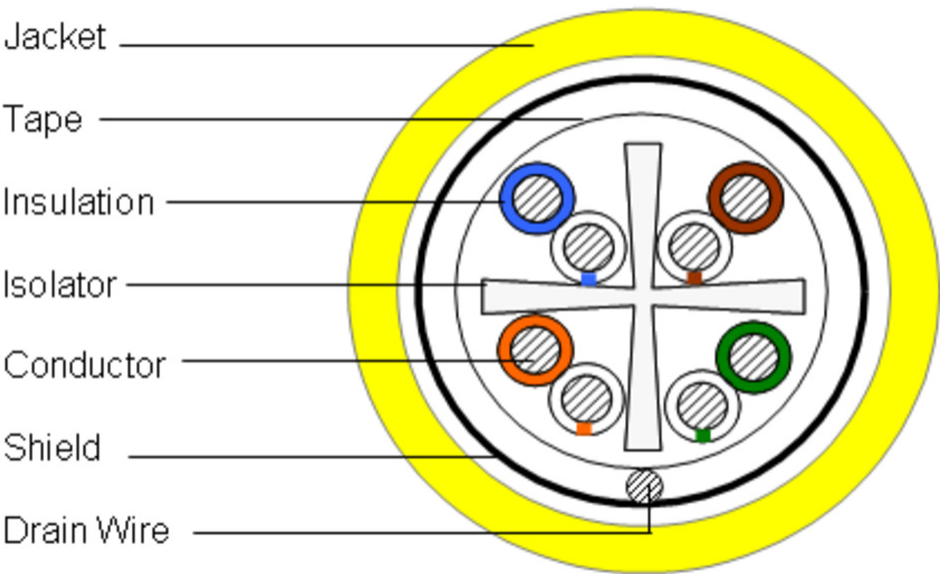
General Specifications

Product Number	CS34P
ANSI/TIA Category	6
Cable Component Type	Horizontal
Cable Type	F/UTP (shielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Drain Wire Type	Solid
Jacket Color	Yellow
Note	All electrical transmission tests include swept frequency measurements
Pairs, quantity	4
Separator Type	Isolator
Transmission Standards	ANSI/TIA-568.2-D CENELEC EN 50288-6-1 ISO/IEC 11801 Class E

Dimensions

Cable Length	304.8 m 1000 ft
Diameter Over Insulated Conductor	1.08 mm 0.043 in
Diameter Over Jacket, nominal	6.934 mm 0.273 in
Jacket Thickness	0.457 mm 0.018 in
Conductor Gauge, singles	23 AWG
Drain Wire Gauge	26 AWG

Cross Section Drawing



Electrical Specifications

Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	8 ohms/100 m 2.438 ohms/100 ft
Delay Skew, maximum	45 ns
Dielectric Strength, minimum	1500 Vac 2500 Vdc
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	71 %
Operating Frequency, maximum	250 MHz
Operating Voltage, maximum	80 V
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		
STD	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above		
TYP	Typical Electrical Performance		
IL	Insertion Loss (dB/100m)	NEXT	Near End Crosstalk (dB/100m)
ACR	Attenuation to Crosstalk Ratio (dB/100m)	PSNEXT	Power Sum Near End Crosstalk (db/100m)
PSACR	Power Sum Attenuation to Crosstalk Ratio (dB/100m)	ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
PSACRF	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)	RL	Return Loss (dB)
TCL	Transverse Conversion Loss (dB/100m)	ELTCTL	Equal Level Transverse Conversion Transfer 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	1.8	74.3	85.6	72.3	83.8	72.3	83	70.3	81.2	67.8	85.5	64.8	82.8	20	34.1
4	3.8	3.4	65.3	79.2	61.5	75.8	63.3	76.9	59.5	73.5	55.8	78.2	52.8	76.5	23	35
8	5.3	4.8	60.8	73.8	55.4	69	58.8	71.6	53.4	66.8	49.7	72.7	46.7	70.9	24.5	35.9
10	6	5.4	59.3	72.5	53.3	67.1	57.3	70.4	51.3	65	47.8	70.8	44.8	69	25	36.6
16	7.6	6.9	56.2	69	48.7	62.1	54.2	66.9	46.7	60.1	43.7	67	40.7	65	25	37.2
20	8.5	7.7	54.8	67.4	46.3	59.7	52.8	65.3	44.3	57.6	41.8	65.2	38.8	63.2	25	37.1
25	9.5	8.6	53.3	65.7	43.8	57.1	51.3	63.6	41.8	55	39.8	63.4	36.8	61.3	24.3	35.5
31.25	10.7	9.6	51.9	64.4	41.2	54.7	49.9	62.3	39.2	52.7	37.9	61.5	34.9	59.4	23.6	35.6
62.5	15.4	13.7	47.4	59.6	32	45.8	45.4	57.4	30	43.7	31.9	55.3	28.9	53	21.5	31.8
100	19.8	17.5	44.3	55.8	24.5	38.3	42.3	53.8	22.5	36.2	27.8	51.2	24.8	49	20.1	28.1
155	25.2	22	41.4	52	16.3	30	39.4	50.1	14.3	28.1	24	47.7	21	45.4	18.8	24.8
200	29	25.1	39.8	49.4	10.8	24.2	37.8	47.7	8.8	22.6	21.8	45	18.8	42.9	18	23.1
250	32.8	28.3	38.3	49.2	5.5	20.9	36.3	47.3	3.5	19	19.8	43.6	16.8	41.2	17.3	21.7
300		31.1		47.7		16.6		45.9		14.8		41.5		39.3		20.5
350		33.8		46.1		12.3		44.3		10.5		39.7		37.6		19.6
400		36.3		44.7		8.4		42.8		6.5		38.5		36.2		19
500		41		42.3		1.2		40.4		-0.7		36.3		33.9		17.6
550		43.2		41		-2.2		38.9		-4.3		34.1		31.8		15.9
650		47.3		34.5		-12.8		33.1		-14.2		32		29.6		15.6

Material Specifications

Conductor Material	Bare copper
Drain Wire Material	Tinned copper
Insulation Material	FEP
Jacket Material	PVC
Separator Material	FEP
Shield (Tape) Material	Aluminum/Polyester

Mechanical Specifications

Pulling Tension, maximum	11.34 kg 25 lb
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Environmental Specifications

Installation temperature	0 °C to +60 °C (+32 °F to +140 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Environmental Space	Plenum
Flame Test Method	CMP/FT6 NEC Article 800 NFPA 262 UL 444 UL 910
Smoke Test Method	CMP/FT6

Packaging and Weights

Cable weight	56.848 kg/km 38.2 lb/kft
Packaging Type	Reel

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

