



Product Classification

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

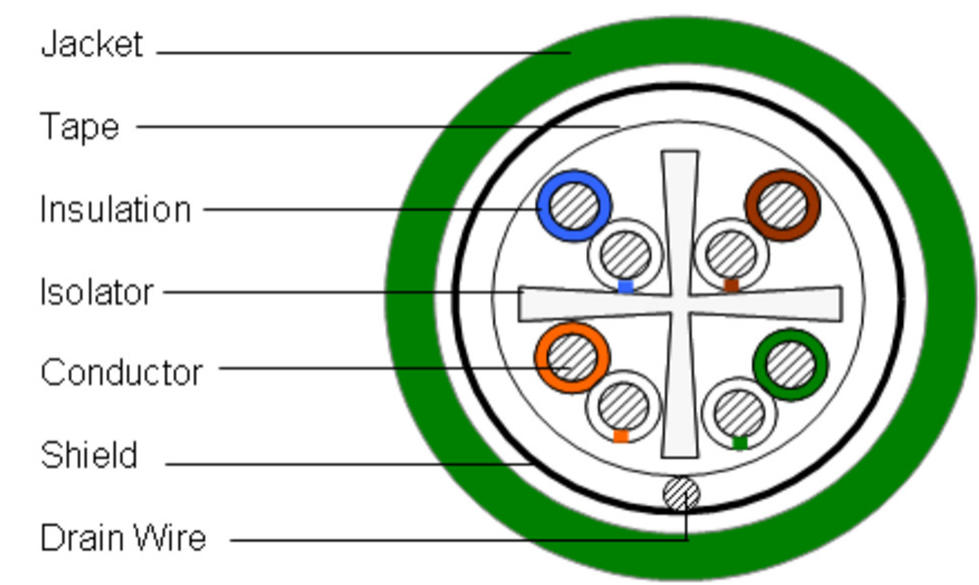
General Specifications

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	Green
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 Performance

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1KFT

CS CommScope value	IL Insertion Loss (dB/100m)	ACR Attenuation to Crosstalk Ratio (dB/100m)
Std Sandard 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)

FREQUENCY	IL TYP	IL CS	IL STD	NEXT TYP	NEXT CS	NEXT STD	ACR TYP	ACR CS	ACR STD	PSNEXT TYP	PSNEXT CS	PSNEXT STD	PSACR TYP	PSACR CS	PSACR STD	ACRF TYP	ACRF CS	ACRF STD	PSACRF TYP	PSACRF CS	PSACRF STD	RL TYP	RL CS	RL STD
1.00 MHz	1.8		2	85.6		74.3	83.8		72.3	83		72.3	81.2		70.3	85.5		67.8	82.8		64.8	34.1		20
4.00 MHz	3.4		3.8	79.2		65.3	75.8		61.5	76.9		63.3	73.5		59.5	78.2		55.8	76.5		52.8	35		23
8.00 MHz	4.8		5.3	73.8		60.8	69		55.4	71.6		58.8	66.8		53.4	72.7		49.7	70.9		46.7	35.9		24.5
10.00 MHz	5.4		6	72.5		59.3	67.1		53.3	70.4		57.3	65		51.3	70.8		47.8	69		44.8	36.6		25
16.00 MHz	6.9		7.6	69		56.2	62.1		48.7	66.9		54.2	60.1		46.7	67		43.7	65		40.7	37.2		25
20.00 MHz	7.7		8.5	67.4		54.8	59.7		46.3	65.3		52.8	57.6		44.3	65.2		41.8	63.2		38.8	37.1		25
25.00 MHz	8.6		9.5	65.7		53.3	57.1		43.8	63.6		51.3	55		41.8	63.4		39.8	61.3		36.8	35.5		24.3
31.25 MHz	9.6		10.7	64.4		51.9	54.7		41.2	62.3		49.9	52.7		39.2	61.5		37.9	59.4		34.9	35.6		23.6
62.50 MHz	13.7		15.4	59.6		47.4	45.8		32	57.4		45.4	43.7		30	55.3		31.9	53		28.9	31.8		21.5
100.00 MHz	17.5		19.8	55.8		44.3	38.3		24.5	53.8		42.3	36.2		22.5	51.2		27.8	49		24.8	28.1		20.1
155.00 MHz	22		25.2	52		41.4	30		16.3	50.1		39.4	28.1		14.3	47.7		24	45.4		21	24.8		18.8
200.00 MHz	25.1		29	49.4		39.8	24.2		10.8	47.7		37.8	22.6		8.8	45		21.8	42.9		18.8	23.1		18
250.00 MHz	28.3		32.8	49.2		38.3	20.9		5.5	47.3		36.3	19		3.5	43.6		19.8	41.2		16.8	21.7		17.3
300.00 MHz	31.1			47.7			16.6			45.9			14.8			41.5			39.3			20.5		
350.00 MHz	33.8			46.1			12.3			44.3			10.5			39.7			37.6			19.6		
400.00 MHz	36.3			44.7			8.4			42.8			6.5			38.5			36.2			19		
500.00 MHz	41			42.3			1.2			40.4			-0.7			36.3			33.9			17.6		
550.00 MHz	43.2			41			-2.2			38.9			-4.3			34.1			31.8			15.9		
650.00 MHz	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

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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
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system