

CS34P Category 6 F/UTP Cable, plenum, red jacket, 4 pair count, 1000 ft (305 m) length, reel



## Product Classification

<b>Regional Availability</b>	North America
<b>Portfolio</b>	Uniprise®
<b>Product Type</b>	Twisted pair cable

## General Specifications

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

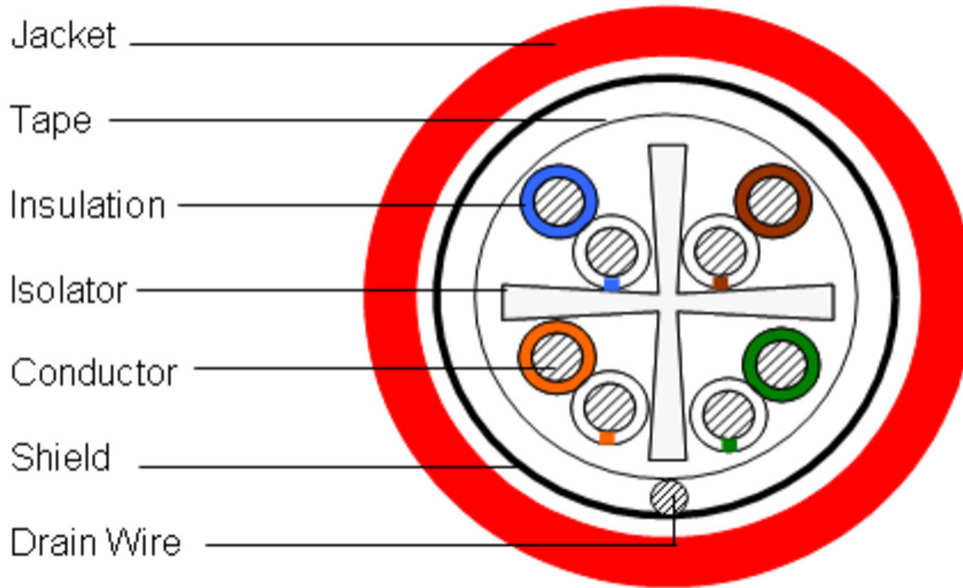
## Dimensions

<b>Cable Length</b>	304.8 m   1000 ft
<b>Diameter Over Insulated Conductor</b>	1.08 mm   0.043 in
<b>Diameter Over Jacket, nominal</b>	6.934 mm   0.273 in
<b>Jacket Thickness</b>	0.457 mm   0.018 in
<b>Conductor Gauge, singles</b>	23 AWG

Drain Wire Gauge

26 AWG

## Cross Section Drawing



## Electrical Specifications

<b>Characteristic Impedance</b>	100 ohm
<b>dc Resistance Unbalance, maximum</b>	5 %
<b>dc Resistance, maximum</b>	8 ohms/100 m   2.438 ohms/100 ft
<b>Delay Skew, maximum</b>	45 ns
<b>Dielectric Strength, minimum</b>	1500 Vac   2500 Vdc
<b>Mutual Capacitance at Frequency</b>	5.6 nF/100 m @ 1 kHz
<b>Nominal Velocity of Propagation (NVP)</b>	71 %
<b>Operating Frequency, maximum</b>	250 MHz
<b>Operating Voltage, maximum</b>	80 V
<b>Remote Powering</b>	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
<b>Safety Voltage Rating</b>	300 V

## Electrical Cable Performance

<b>CS</b>	CommScope	<b>NEXT</b>	Near End Crosstalk (dB/100m)
<b>STD</b>	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above	<b>PSNEXT</b>	Power Sum Near End Crosstalk (db/100m)
<b>TYP</b>	Typical Electrical Performance	<b>ACRF</b>	Attenuation to Crosstalk Ratio - Far End (dB/100m)
<b>IL</b>	Insertion Loss (dB/100m)	<b>RL</b>	Return Loss (dB)
<b>ACR</b>	Attenuation to Crosstalk Ratio (dB/100m)	<b>ELTCTL</b>	Equal Level Transverse Conversion Transfer Loss (dB/100m)
<b>PSACR</b>	Power Sum Attenuation to Crosstalk Ratio (dB/100m)		
<b>PSACRF</b>	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)		
<b>TCL</b>	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	1.8	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

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

## Mechanical Specifications

**Pulling Tension, maximum** 11.34 kg | 25 lb

## Environmental Specifications

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

## Packaging and Weights

<b>Cable weight</b>	56,847.863 kg/km   38200 lb/kft
<b>Packaging Type</b>	Reel

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

