

CS34R Category 6 F/UTP Cable, non-plenum, blue jacket, 4 pair count, 1000 ft (305 m) length, reel



Product Classification

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

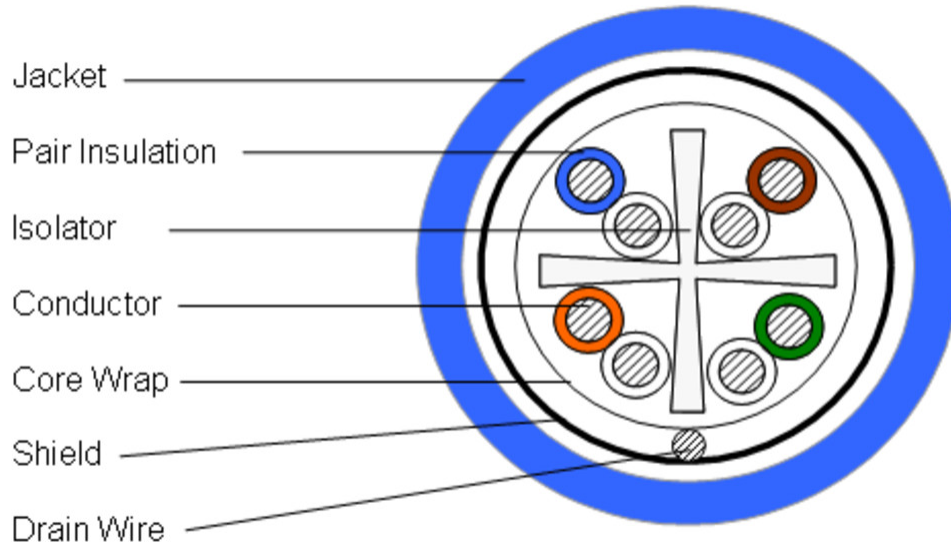
General Specifications

Product Number	CS34R
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	Blue
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 Jacket, nominal	7.315 mm 0.288 in
Jacket Thickness	0.508 mm 0.02 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)	68 %
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
	TYP	TYP	TYP	TYP	TYP	TYP	TYP	TYP
1	1.7	87.7	85.9	85.3	83.6	88.5	85.8	31.2
4	3.3	82	78.7	79.8	76.4	80.8	79	32.7
8	4.7	76.7	72	74.6	69.9	75	73.2	35.3
10	5.2	74.4	69.1	72.5	67.3	73	71.2	36.5
16	6.7	71.2	64.6	69.3	62.6	69.2	67.2	36.6
20	7.5	69.8	62.3	67.9	60.4	67.3	65.4	36.3
25	8.4	68.4	60.1	66.4	58.1	65.3	63.5	35.6
31.25	9.3	66.9	57.6	64.9	55.6	63.4	61.6	33.9
62.5	13.3	62.8	49.5	60.8	47.6	57.3	55.4	31.3
100	16.9	59	42.2	57.1	40.3	53.4	51.6	27.1
155	21.1	55.6	34.5	53.8	32.7	49.5	47.5	23.7
200	24.1	52.1	28	50.6	26.6	47.6	45.5	21.8
250	27	51.1	24.1	49.4	22.4	45.3	43.2	20.1
300	29.7	50.1	20.4	48.3	18.6	43.5	41.6	19.1
350	32.2	48.8	16.7	47	14.8	42.3	40.2	18.1
400	34.5	47.3	12.7	45.6	11	40.9	38.9	17.2
500	39	44	5	42.5	3.5	39	36.9	15.9
550	41.1	43.2	2.1	41.6	0.5	36.2	33.8	15.5
650	45	43.4	-1.6	41.5	-2.5	34.6	32.3	15

Electrical Performance

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Freq (MHz)	IL (dB/100m)	NEXT (dB/100m)	ACR (dB/100m)	PSNEXT (dB/100m)	PSACR (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)	RL (dB)
	Std	Std	Std	Std	Std	Std	Std	Std
1	2.1	75.3	73.2	72.3	70.2	68.0	65.0	20.0
4	3.8	66.3	62.5	63.3	59.5	56.0	53.0	23.0
8	5.3	61.8	56.4	58.8	53.4	49.9	46.9	24.5
10	5.9	60.3	54.4	57.3	51.4	48.0	45.0	25.0
16	7.5	57.2	49.8	54.2	46.8	43.9	40.9	25.0
20	8.4	55.8	47.4	52.8	44.4	42.0	39.0	25.0
25	9.4	54.3	45.0	51.3	42.0	40.0	37.0	24.3
31.25	10.5	52.9	42.4	49.9	39.4	38.1	35.1	23.6
62.5	15.0	48.4	33.4	45.4	30.4	32.1	29.1	21.5
100	19.1	45.3	26.2	42.3	23.2	28.0	25.0	20.1
155	24.1	42.4	18.4	39.4	15.4	24.2	21.2	18.8
200	27.6	40.8	13.2	37.8	10.2	22.0	19.0	18.0
250	31.1	39.3	8.3	36.3	5.3	20.0	17.0	17.3
300	34.3	38.1	3.9	35.1	0.9	18.5	15.5	16.8
350	37.2	37.1	-0.1	34.1	-3.1	17.1	14.1	16.3
400	40.1	36.3	-3.8	33.3	-6.8	16.0	13.0	15.9
500	45.3	34.8	-10.4	31.8	-13.4	14.0	11.0	15.2

CS = CommScope | Std = Standard value listed under Transmission Standards in the Electrical Specifications | Typ = Typical

Material Specifications

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

Mechanical Specifications

Pulling Tension, maximum 11.34 kg | 25 lb

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	Non-plenum
Flame Test Method	CMR NEC Article 800 UL 1666 UL 444

Packaging and Weights

Cable weight	50.746 kg/km 34.1 lb/kft
Packaging Type	Reel

Regulatory Compliance/Certifications

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

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1KFT

