

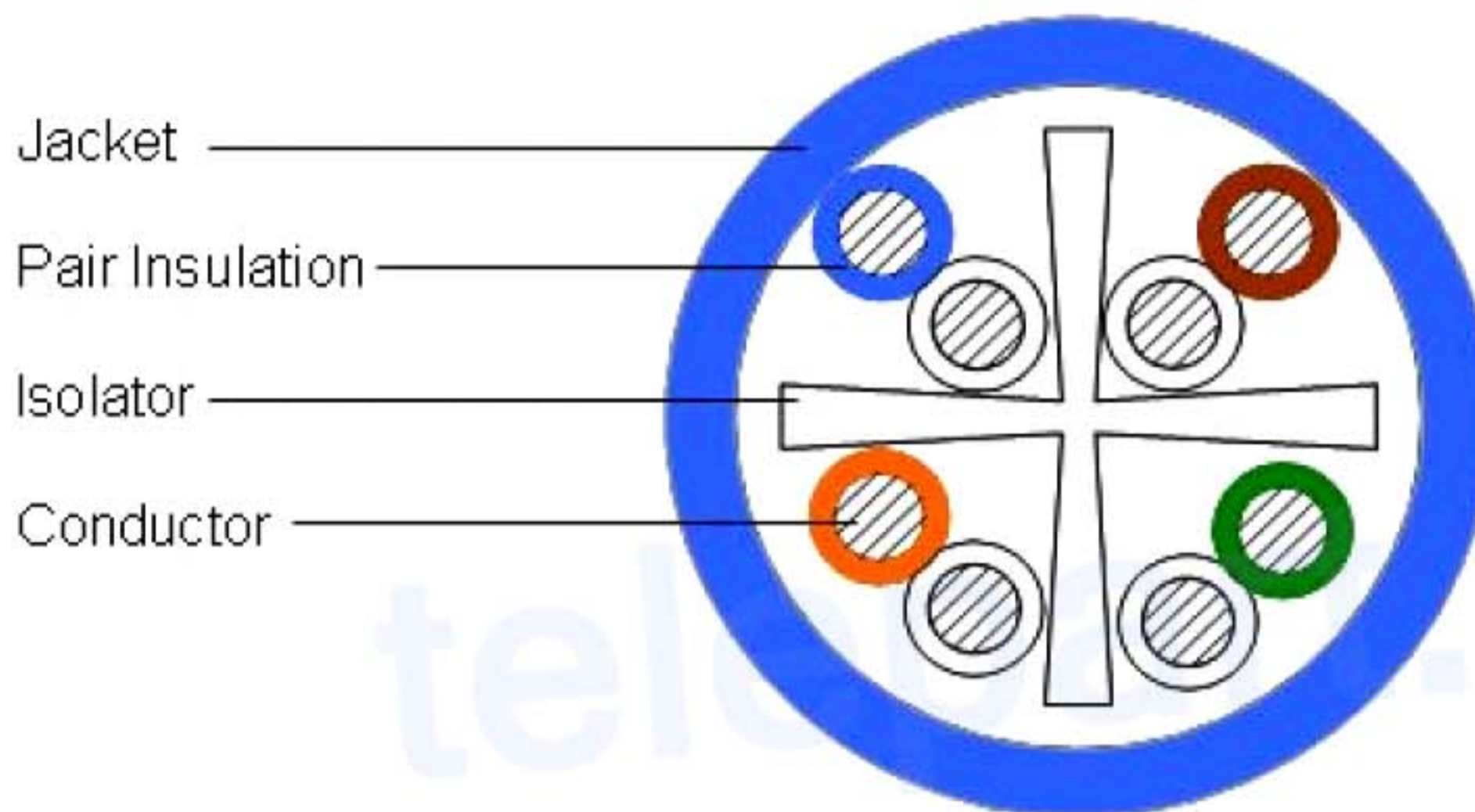
884022314/10 | CS31R BLU C6 4/23 U/UTP CPK 1KFT

CS31 Category 6 U/UTP Cable, non-plenum, blue jacket, 4 pair count, 1000 ft (305 m) length Commpak

Product Classification

Portfolio	NETCONNECT®
Product Type	Twisted pair cable
Regional Availability	Asia

Cross Section Drawing



Construction Materials

Jacket Material	PVC
Conductor Material	Bare copper
Insulation Material	Polyolefin
Separator Material	Polyolefin

Dimensions

Cable Length	305 m 1000 ft
Cable Weight	25.90 lb/kft
Diameter Over Jacket, maximum	5.84 mm 0.23 in
Jacket Thickness	0.559 mm 0.022 in

Electrical Specifications

ANSI/TIA Category	6
Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	7.61 ohms/100 m
Delay Skew, maximum	45 ns
Mutual Capacitance	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	68 %
Operating Frequency, maximum	250 MHz
Transmission Standards	ANSI/TIA-568-C.2 CENELEC EN 50288-6-1 ISO/IEC 11801 Class E
Safety Voltage Rating	300 V

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Dielectric Strength, minimum 1500 Vac | 2500 Vdc
Note All electrical transmission tests include swept frequency measurements

Environmental Specifications

Environmental Space Non-plenum
Flame Test Method CMR
Installation Temperature 0 °C to +60 °C (+32 °F to +140 °F)
Operating Temperature -20 °C to +60 °C (-4 °F to +140 °F)

General Specifications

Cable Type U/UTP (unshielded)
Packaging Type CommPak® box
Pairs, quantity 4
Cable Component Type Horizontal
Jacket Color Blue
Product Number CS31R
Brand NETCONNECT®
Conductor Gauge, singles 23 AWG
Conductor Type, singles Solid
Conductors, quantity 8
Ordering Note Available in Asia Pacific
Separator Type Isolator

Mechanical Specifications

Pulling Tension, maximum 11 kg | 25 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system





Electrical Performance

- CS CommScope
- Std Refers to the standard value listed under Transmission Standards in the Electrical Specifications above
- 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		TCL		ELTCTL	
	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std
1	2.0	2.0	75.3	74.3	73.3	72.3	72.3	72.3	70.3	70.3	68.0	67.8	65.0	64.8	20.0	20.0	40.0	40.0	35.0	35.0
4	3.8	3.8	66.3	65.3	62.5	61.5	63.3	63.3	59.5	59.5	56.0	55.8	53.0	52.8	23.0	23.0	40.0	40.0	23.0	23.0
8	5.3	5.3	61.8	60.8	56.4	55.4	58.8	58.8	53.4	53.4	49.9	49.7	46.9	46.7	24.5	24.5	40.0	40.0	16.9	16.9
10	6.0	6.0	60.3	59.3	54.3	53.3	57.3	57.3	51.3	51.3	48.0	47.8	45.0	44.8	25.0	25.0	40.0	40.0	15.0	15.0
16	7.6	7.6	57.2	56.2	49.7	48.7	54.2	54.2	46.7	46.7	43.9	43.7	40.9	40.7	25.0	25.0	38.0	38.0	10.9	10.9
20	8.5	8.5	55.8	54.8	47.3	46.3	52.8	52.8	44.3	44.3	42.0	41.8	39.0	38.8	25.0	25.0	37.0	37.0	9.0	9.0
25	9.5	9.5	54.3	53.3	44.8	43.8	51.3	51.3	41.8	41.8	40.0	39.8	37.0	36.8	24.3	24.3	36.0	36.0	7.0	7.0
31.25	10.7	10.7	52.9	51.9	42.2	41.2	49.9	49.9	39.2	39.2	38.1	37.9	35.1	34.9	23.6	23.6	35.1	35.1		
62.5	15.4	15.4	48.4	47.4	33.0	32.0	45.4	45.4	30.0	30.0	32.1	31.9	29.1	28.9	21.5	21.5	32.0	32.0		
100	19.8	19.8	45.3	44.3	25.5	24.5	42.3	42.3	22.5	22.5	28.0	27.8	25.0	24.8	20.1	20.1	30.0	30.0		
155	25.2	25.2	42.4	41.4	17.3	16.3	39.4	39.4	14.3	14.3	24.2	24.0	21.2	21.0	18.8	18.8	28.1	28.1		
200	29.0	29.0	40.8	39.8	11.8	10.8	37.8	37.8	8.8	8.8	22.0	21.8	19.0	18.8	18.0	18.0	27.0	27.0		
250	32.8	32.8	39.3	38.3	6.5	5.5	36.3	36.3	3.5	3.5	20.0	19.8	17.0	16.8	17.3	17.3	26.0	26.0		

