Product Specifications



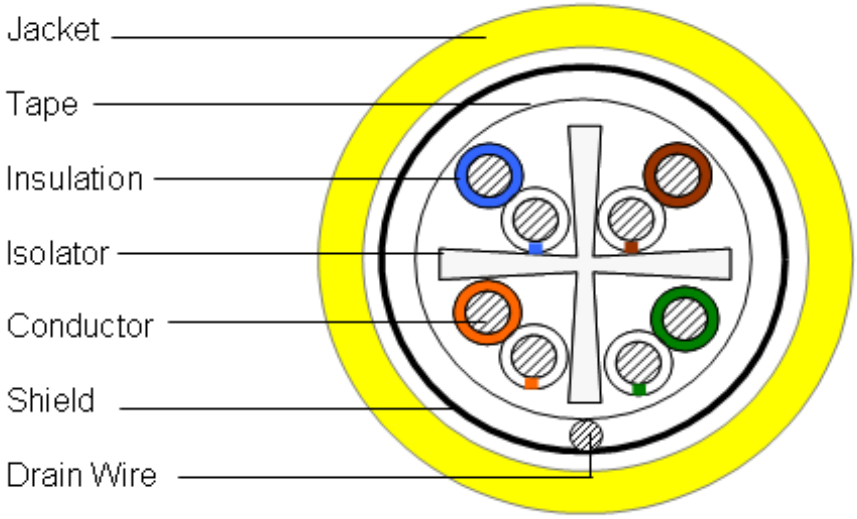
UN874030404/10 | CS34P YEL C6 4/23 F/UTP RL 1KFT

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

Product Classification

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

Cross Section Drawing



Construction Materials

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

Dimensions

Cable Length	305 m | 1000 ft
Cable Weight	38.20 lb/ft
Diameter Over Jacket	6.934 mm | 0.273 in
Jacket Thickness	0.457 mm | 0.018 in

Electrical Specifications

ANSI/TIA Category	6
Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	8.00 ohms/100 m

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Delay Skew, maximum	45 ns
Mutual Capacitance	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	71 %
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
Dielectric Strength, minimum	1500 Vac | 2500 Vdc
Note	All electrical transmission tests include swept frequency measurements

Environmental Specifications

Environmental Space	Plenum
Flame Test Method	CMP
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	F/UTP (shielded)
Packaging Type	Reel
Pairs, quantity	4
Cable Component Type	Horizontal
Jacket Color	Yellow
Product Number	CS34P
Brand	Uniprise®
Conductor Gauge, singles	23 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
Drain Wire Gauge	24 AWG
Drain Wire Type	Solid
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

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Product Specifications

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Electrical Performance

Std	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above
Typ	Typical
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)

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	2.0	1.8	74.3	85.6	72.3	83.8	72.3	83.0	70.3	81.2	67.8	85.5	64.8	82.8	20.0	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	23.0	35.0
8	5.3	4.8	60.8	73.8	55.4	69.0	58.8	71.6	53.4	66.8	49.7	72.7	46.7	70.9	24.5	35.9
10	6.0	5.4	59.3	72.5	53.3	67.1	57.3	70.4	51.3	65.0	47.8	70.8	44.8	69.0	25.0	36.6
16	7.6	6.9	56.2	69.0	48.7	62.1	54.2	66.9	46.7	60.1	43.7	67.0	40.7	65.0	25.0	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	25.0	37.1
25	9.5	8.6	53.3	65.7	43.8	57.1	51.3	63.6	41.8	55.0	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	32.0	45.8	45.4	57.4	30.0	43.7	31.9	55.3	28.9	53.0	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	49.0	20.1	28.1
155	25.2	22.0	41.4	52.0	16.3	30.0	39.4	50.1	14.3	28.1	24.0	47.7	21.0	45.4	18.8	24.8
200	29.0	25.1	39.8	49.4	10.8	24.2	37.8	47.7	8.8	22.6	21.8	45.0	18.8	42.9	18.0	23.1
250	32.8	28.3	38.3	49.2	5.5	20.9	36.3	47.3	3.5	19.0	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		19.0
500		41.0		42.3		1.2		40.4		-0.7		36.3		33.9		17.6
550		43.2		41.0		-2.2		38.9		-4.3		34.1		31.8		15.9
650		47.3		34.5		-12.8		33.1		-14.2		32.0		29.6		15.6

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