884086354/16



CS41ZB, ETL Verified Category 6A U/UTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1640 ft (500 m) length reel (EMEA)

Product Classification

PortfolioNETCONNECT@Product TypeWisid pair cableGeneral SpecificationsS412BProduct NumberCS412BANS/TIA CategoryACable Component TypeHorizontalCable Component TypeU/UTP (unshielded)Conductor Type, singlesSolidConductor Quantity8Jacket ColorWitieParsing quantity4Separator TypeIsolatorTransmission StandardsS011/Li4S682-D IEC 61156-S ISO/IEC 11801 Class PADimensionsS00 m 1,640.42 ftGameter Over Insulated Conductor000 m 1,640.42 ftJacket ThicknessS00 sm 0.02 inJacket ThicknessS00 sm 0.02 in	Regional Availability	EMEA	
Forduct Number CS412B ANSI/TIA Category 6A Cable Component Type Horizontal Cable Component Type U/UTP (unshielded) Conductor Type, singles Solid Conductors, quantity 8 Jacket Color White Paris, quantity Isolator Separator Type Isolator Transmission Standards ANSI/TIA-568.2-D IEC 61156-5 ISO/IEC 11801 Class EA Dimensions S00 m 1,640.42 ft Gameter Over Insulated Conductor 108 mm 0.043 in Diameter Over Jacket, nominal S08 mm 0.275 in Jacket Thickness 0508 mm 0.02 in	Portfolio	NETCONNECT®	
Product NumberCS41ZBProduct NumberCS41ZBANSI/TIA Category6ACable Component TypeHorizontalCable TypeU/UTP (unshielded)Conductor Type, singlesSolidConductors, quantity8Jacket ColorWhitePairs, quantity4Separator TypeIsolatorTransmission StandardsSolid - IsolatorCible Length500 m 1,640.42 ftDiameter Over Insulated Conductor1.08 mm 0.043 inDiameter Over Jacket, nominal6,985 mm 0.275 inJacket Thicknes0.508 mm 0.02 in	Product Type	Twisted pair cable	
ANSI/TIA Category6AANSI/TIA Category6ACable Component TypeHorizontalCable TypeU/UTP (unshielded)Conductor Type, singlesSolidConductors, quantity8Jacket ColorWhitePairs, quantity4Separator TypeIsolatorTransmission StandardsANSI/TIA-568.2-D IEC 61156-5 ISO/IEC 11801 Class EADimensions500 m 1,640.42 ftDiameter Over Insulated Conductor1.08 mm 0.043 inDiameter Over Jacket, nominal6.985 mm 0.275 inJacket Thickness0.508 mm 0.02 in	General Specifications		
Cable Component TypeHorizontalCable TypeU/UTP (unshielded)Conductor Type, singlesSolidConductors, quantity8Jacket ColorWhitePairs, quantity4Separator TypeIsolatorTransmission StandardsANSI/TIA-568.2-D IEC 61156-5 ISO/IEC 11801 Class EADimensions1.08 mm 0.043 inDiameter Over Insulated Conductor0.985 mm 0.275 inDiameter Over Jacket, nominal6.985 mm 0.275 inJacket Thickness0.508 mm 0.02 in	Product Number	CS41ZB	
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Conductor Type, singlesSolidConductors, quantity8Jacket ColorWhitePairs, quantity4Separator TypeIsolatorTransmission StandardsANSI/TIA-568.2-D IEC 61156-5 ISO/IEC 11801 Class EADimensions500 m 1,640.42 ftDiameter Over Insulated Conductor1.08 mm 0.043 inDiameter Over Jacket, nominal6.985 mm 0.275 inJacket Thickness0.508 mm 0.02 in	Cable Component Type	Horizontal	
Conductors, quantity8Jacket ColorWhitePairs, quantity4Separator TypeIsolatorTransmission StandardsANSI/TIA-568.2-D IEC 61156-5 ISO/IEC 11801 Class EADimensionS500 m 1,640.42 ftDiameter Over Insulated Conductor1.08 mm 0.043 inDiameter Over Jacket, nominal6.985 mm 0.275 inJacket Thickness0.508 mm 0.02 in	Cable Type	U/UTP (unshielded)	
Jacket ColorWhitePairs, quantity4Separator TypeIsolatorTransmission StandardsANSI/TIA-568.2-D IEC 61156-5 ISO/IEC 11801 Class EADimensions500 m 1,640.42 ftDiameter Over Insulated Conductor1.08 mm 0.043 inDiameter Over Jacket, nominal6.985 mm 0.275 inJacket Thickness0.508 mm 0.02 in	Conductor Type, singles	Solid	
Pairs, quantity4Separator TypeIsolatorTransmission StandardsANSI/TIA-568.2-D IEC 61156-5 ISO/IEC 11801 Class EADimensionS500 m 1,640.42 ftCable Length500 m 0.043 inDiameter Over Insulated Conductor1.08 mm 0.043 inDiameter Over Jacket, nominal6.985 mm 0.275 inJacket Thickness0.508 mm 0.021 in	Conductors, quantity	8	
Separator TypeIsolatorTransmission StandardsANSI/TIA-568.2-D IEC 61156-5 ISO/IEC 11801 Class EADimensions500 m 1,640.42 ftDiameter Over Insulated Conductor1.08 mm 0.043 inDiameter Over Jacket, nominal6.985 mm 0.275 inJacket Thickness0.508 mm 0.02 in	Jacket Color	White	
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DimensionsCable Length500 m 1,640.42 ftDiameter Over Insulated Conductor1.08 mm 0.043 inDiameter Over Jacket, nominal6.985 mm 0.275 inJacket Thickness0.508 mm 0.02 in	Separator Type	Isolator	
Cable Length500 m 1,640.42 ftDiameter Over Insulated Conductor1.08 mm 0.043 inDiameter Over Jacket, nominal6.985 mm 0.275 inJacket Thickness0.508 mm 0.02 in	Transmission Standards	ANSI/TIA-568.2-D IEC 61156-5 ISO/IEC 11801 Class EA	
Diameter Over Insulated Conductor1.08 mm 0.043 inDiameter Over Jacket, nominal6.985 mm 0.275 inJacket Thickness0.508 mm 0.02 in	Dimensions		
Diameter Over Jacket, nominal 6.985 mm 0.275 in Jacket Thickness 0.508 mm 0.02 in	Cable Length	500 m 1,640.42 ft	
Jacket Thickness 0.508 mm 0.02 in	Diameter Over Insulated Conductor	1.08 mm 0.043 in	
	Diameter Over Jacket, nominal	6.985 mm 0.275 in	
Conductor Gauge, singles 24 AWG	Jacket Thickness	0.508 mm 0.02 in	
	Conductor Gauge, singles	24 AWG	

Cross Section Drawing

Page 1 of 4



884086354/16

Jacket —	
Insulation ———	
Isolator	
Conductor ——	
Таре	

Electrical Specifications

dc Resistance Unbalance, maximum	4 %
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	500 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
Segregation Class	b

Page 2 of 4



Electrical Cable Performance

CS	CommScope					
STD	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above					
ТҮР	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)			

MHz	IL	NEXT	ACR	PSNEXT	PSACR	ACRF	PSACRF	RL STD
	STD	STD	STD	STD	STD	STD		
1	2.1	75.3	73.2	72.3	70.2	68	65	20
4	3.8	66.3	62.5	63.3	59.5	55.9	53	23
8	5.3	61.7	56.4	58.7	53.4	49.9	46.9	24.5
10	5.9	60.3	54.4	57.3	51.4	48	45	25
16	7.5	57.2	49.7	54.2	46.7	43.9	40.9	25
20	8.4	55.8	47.4	52.8	44.4	42	39	25
25	9.4	54.3	44.9	51.3	41.9	40	37	24.3
31.25	10.5	52.9	42.4	49.9	39.4	38.1	35.1	23.6
62.5	15	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	25	20.1
155	24.1	42.4	18.3	39.4	15.3	24.2	21.2	18.8
200	27.6	40.8	13.2	37.8	10.2	22	19	18
250	31.1	39.3	8.3	36.3	5.3	20	17	17.3
300	34.3	38.1	3.9	35.1	0.9	18.4	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	15.9	13	15.9
500	45.3	34.8	-10.5	31.8	-13.5	14	11	15.2

Material Specifications

Conductor Material	Bare copper
Insulation Material	Polyolefin
Jacket Material	Low Smoke Fire Retardant Zero Halogen (LSFRZH)
Separator Material	Polyolefin
Tape Material	Poly/Aluminum/Poly
Mechanical Specifications	

Pulling Tension, maximum

11.34 kg | 25 lb

Environmental Specifications

Page 3 of 4



884086354/16

Installation temperature	0 °C to +60 °C (+32 °F to +140 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Acid Gas Test Method	IEC 60754-2
EN50575 CPR Cable EuroClass Fire Performance	B2ca
EN50575 CPR Cable EuroClass Smoke Rating	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d0
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Low Smoke Zero Halogen (LSZH)
Flame Test Method	EN 50399 IEC 60332-3-22
Smoke Test Method	IEC 61034-2
Packaging and Weights	

Cable weight Packaging Type 44.451 kg/km | 29.87 lb/kft Reel

Page 4 of 4

