



Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Latin America
Portfolio	NETCONNECT®
Product Type	Twisted pair cable

General Specifications

ANSI/TIA Category	7
Cable Component Type	Horizontal
Cable Type	S/FTP (shielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	Orange
Note	All electrical transmission tests include swept frequency measurements Cable will support performance requirements for Cat6A / Cat 7 Channels of a given class will support all applications of a lower class
Pairs, quantity	4
Transmission Standards	CENELEC EN 50288-4-1 IEC 61156-5 Cat 7 ISO/IEC 11801 Class F

Dimensions

Cable Length	1,000 m 3280.84 ft
Diameter Over Insulated Conductor	1.501 mm 0.0591 in
Diameter Over Jacket, nominal	7.29 mm 0.287 in

Conductor Gauge, singles23 AWG

Electrical Specifications

Characteristic Impedance	100 ohm
Characteristic Impedance Tolerance	±15 ohm
Coupling Attenuation	Type I
dc Resistance, maximum	7.61 ohms/100 m 2.32 ohms/100 ft
Delay Skew, maximum	7 ns
Nominal Velocity of Propagation (NVP)	80 %
Operating Frequency, maximum	600 MHz
Operating Voltage, maximum	80 V
Segregation Class	d
Transfer Impedance	Grade 1

Electrical Performance

CS CommScope value	IL Insertion Loss (dB/100m)	ACR Attenuation to Crosstalk Ratio (dB/100m)
Std Standard value (listed under the Transmission Standards in the Electrical Specifications above)	RL Return Loss (dB)	ACRF Attenuation to Crosstalk Ratio - Far End (dB/100m)
Typ Typical value	NEXT Near End Crosstalk (dB/100m)	PSACR Power Sum Attenuation to Crosstalk Ratio (dB/100m)
	PSNEXT Power Sum Near End Crosstalk (dB/100m)	PSACRF Insertion Loss (dB/100m)

FREQUENCY	IL TYP	IL CS	IL STD	NEXT TYP	NEXT CS	NEXT STD	ACR TYP	ACR CS	ACR STD	PSNEXT TYP	PSNEXT CS	PSNEXT STD	PSACR TYP	PSACR CS	PSACR STD	ACRF TYP	ACRF CS	ACRF STD	PSACRF TYP	PSACRF CS	PSACRF STD	RL TYP	RL CS	RL STD
1.00 MHz	2						94			93		75									75	26		20
4.00 MHz	3.6						92			93		75									75	30		23
10.00 MHz	5.9						90			93		75									75	33		25
16.00 MHz	7.4						88			93		75									73	33		25
20.00 MHz	8.3						87			93		75									71	33		25
31.25 MHz	10						86			93		75									67	33		25
62.50 MHz	14						82			93		72.5									61	33		25
100.00 MHz	18						78			93		69.4									57	33		23
200.00 MHz	26						67			90		64.9									51	29		21
250.00 MHz	28						64			89		63.4									49	28		20
300.00 MHz	33						57			87		62.2									47	27		20
450.00 MHz	39						39			85		59.6									44	26		19
600.00 MHz	46						34			77		57.7									36	25		18
750.00 MHz	52						28			75											34	24		
900.00 MHz	55						17			72											32	23		
1000.00 MHz	57						15			70											30	20		

Material Specifications

Conductor Material	Bare copper
Insulation Material	Polyolefin
Jacket Material	Low Smoke Fire Retardant Zero Halogen (LSFRZH)
Shield (Tape) Material	Aluminum/Polyester

Environmental Specifications

Installation temperature	0 °C to +50 °C (+32 °F to +122 °F)
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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	Dca
EN50575 CPR Cable EuroClass Smoke Rating	s2
EN50575 CPR Cable EuroClass Droplets Rating	d2
EN50575 CPR Cable EuroClass Acidity Rating	a1
Flame Test Method	IEC 60332-3
Smoke Test Method	IEC 61034-2

Packaging and Weights

Packaging Type	Reel
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Regulatory Compliance/Certifications

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

