

Product Specifications



5E55 WHITE REEL

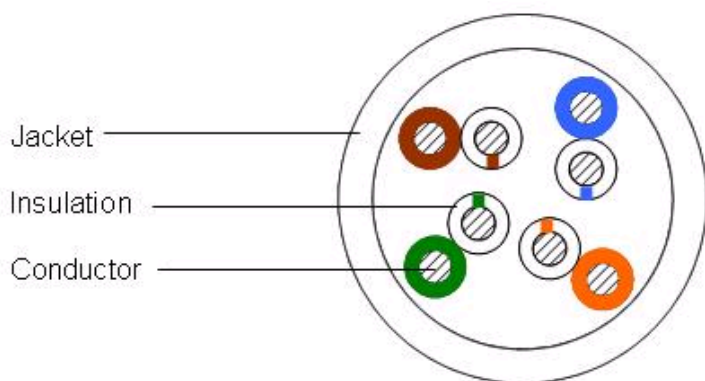
Material ID: 4759104/10

DataPipe® 5E55 Category 5e U/UTP Cable, plenum, white jacket, 4 pair count, 1000 ft (305 m) length, reel



CHARACTERISTICS

Cross Section Drawing



Construction Materials

Conductor Material	Bare copper
Insulation Material	FEP Polyolefin
Jacket Material	PVC

Dimensions

Cable Length	305 m 1000 ft
Cable Weight	20.01 lb/kft
Diameter Over Jacket	4.572 mm 0.180 in
Jacket Thickness	0.483 mm 0.019 in

Electrical Specifications

ANSI/TIA Category	5e
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	9.38 ohms/100 m
Delay Skew	15 ns



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Mutual Capacitance	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	76 %
Operating Frequency, maximum	200 MHz
Transmission Standards	ANSI/TIA-568-C.2 CENELEC EN 50288 -3-1 ISO/IEC 11801 Class D
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)
Smoke Test Method	CMP

General Specifications

Brand	DataPipe® Uniprise®
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Pairs, quantity	4
Jacket Color	White
Conductor Gauge, singles	24 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
Packaging Type	Reel
Product Number	5E55

Mechanical Specifications

Pulling Tension, maximum	11 kg 25 lb
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Regulatory Compliance/Certifications

Agency
RoHS 2002/95/EC
ISO 9001:2008

Classification
Compliant
Compliant



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Electrical Performance

CS	CommScope	PSACR	Power Sum Attenuation to Crosstalk Ratio (dB/100m)
Std	Standard (ANSI/TIA-568)	ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
IL	Insertion Loss (dB/100m)	PSACRF	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)
NEXT	Near End Crosstalk (dB/100m)	RL	Return Loss (dB)
ACR	Attenuation to Crosstalk Ratio (dB/100m)		
PSNEXT	Power Sum Near End Crosstalk (db/100m)		

Freq. MHz	IL		NEXT		ACR		PSNEXT		PSACR		ACRF		PSACRF		RL	
	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std
1	2.0	2.0	65.3	65.3	63.3	63.3	62.3	62.3	60.3	60.3	63.8	63.8	60.8	60.8	20.0	20.0
4	4.1	4.1	56.3	56.3	52.2	52.2	53.3	53.3	49.2	49.2	51.8	51.8	48.8	48.8	23.0	23.0
8	5.8	5.8	51.8	51.8	46.0	46.0	48.8	48.8	43.0	43.0	45.7	45.7	42.7	42.7	24.5	24.5
10	6.5	6.5	50.3	50.3	43.8	43.8	47.3	47.3	40.8	40.8	43.8	43.8	40.8	40.8	25.0	25.0
16	8.2	8.2	47.2	47.2	39.0	39.0	44.2	44.2	36.0	36.0	39.7	39.7	36.7	36.7	25.0	25.0
20	9.3	9.3	45.8	45.8	36.5	36.5	42.8	42.8	33.5	33.5	37.8	37.8	34.8	34.8	25.0	25.0
25	10.4	10.4	44.3	44.3	33.9	33.9	41.3	41.3	30.9	30.9	35.8	35.8	32.8	32.8	24.3	24.3
31.25	11.7	11.7	42.9	42.9	31.2	31.2	39.9	39.9	28.2	28.2	33.9	33.9	30.9	30.9	23.6	23.6
62.5	17.0	17.0	38.4	38.4	21.4	21.4	35.4	35.4	18.4	18.4	27.9	27.9	24.9	24.9	21.5	21.5
100	22.0	22.0	35.3	35.3	13.3	13.3	32.3	32.3	10.3	10.3	23.8	23.8	20.8	20.8	20.1	20.1
155	28.1		32.4		4.4		29.4		1.4		20.0		17.0		18.8	
200	32.4		30.8		-1.6		27.8		-4.6		17.8		14.8		18.0	



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