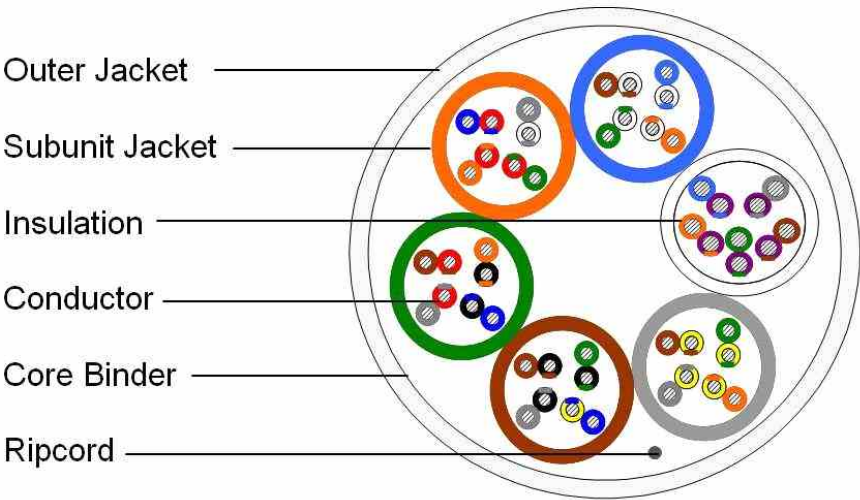


4172346/40 | 5E25 WHITE REEL 4K

Datapipe® 5E25 Category 5e U/UTP Cable, plenum, white jacket, 25 pair count, 4000 ft length, reel

Cross Section Drawing



Construction Materials

Jacket Material	PVDF
Conductor Material	Bare copper
Inner Jacket Material	PVC
Insulation Material	FEP
Ripcord Material	Nylon

Dimensions

Cable Length	1219 m   4000 ft
Cable Length Tolerance	±5%
Cable Weight	167.37 lb/kft
Diameter Over Jacket	14.986 mm   0.590 in
Jacket Thickness	0.457 mm   0.018 in

Electrical Specifications

ANSI/TIA Category	5e
Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	9.38 ohms/100 m
Delay Skew, maximum	15 ns
Mutual Capacitance	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	71 %
Operating Frequency, maximum	100 MHz
Transmission Standards	ANSI/TIA-568-C.2   CENELEC EN 50288-3-1   ISO/IEC 11801 Class D

4172346/40 | 5E25 WHITE REEL 4K

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

Cable Type	U/UTP (unshielded)
Pairs, quantity	25
Cable Component Type	Backbone
Packaging Type	Reel
Brand	Datapipe®   Uniprise®
Jacket Color	White
Product Number	5E25
Conductor Gauge, singles	24 AWG
Conductor Type, singles	Solid
Conductors, quantity	50
Subunit, quantity	6

## Mechanical Specifications

Pulling Tension, maximum	68 kg   150 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

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)

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