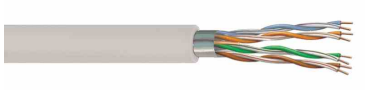
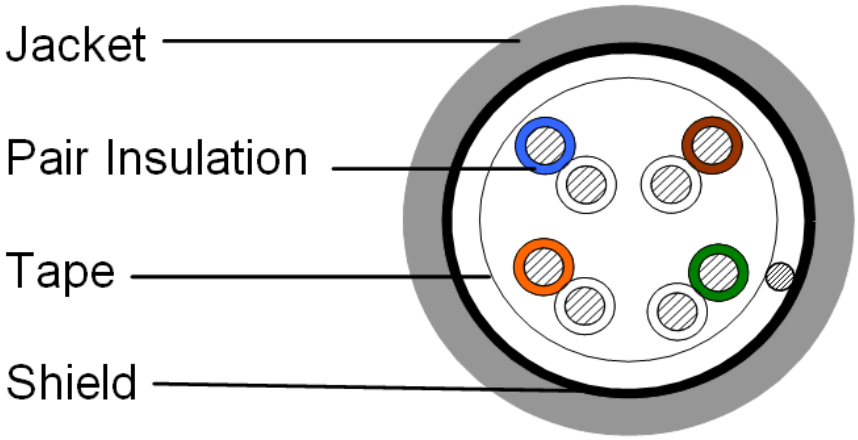
Product Specifications



4667004/10 | 5ENS4 WHITE REEL

Datapipe® 5ENS4 Category 5e F/UTP Cable, non-plenum, white jacket, 4 pair count, 1000 ft (305 m) length, reel

Cross Section Drawing



Construction Materials

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

Dimensions

Cable Length	305 m | 1000 ft
Cable Weight	27.00 lb/kft
Diameter Over Jacket	6.147 mm | 0.242 in
Jacket Thickness	0.508 mm | 0.020 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)	69 %
Operating Frequency, maximum	100 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

©2016 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommScope.
All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: January 16, 2016

Product Specifications

4667004/10 | 5ENS4 WHITE REEL

Environmental Specifications

Environmental Space	Non-plenum
Flame Test Method	CMG | CMR
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)
Pairs, quantity	4
Cable Component Type	Horizontal
Packaging Type	Reel
Brand	Datapipe® | Uniprise®
Jacket Color	White
Product Number	5ENS4
Conductor Gauge, singles	24 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
Drain Wire Gauge	24 AWG
Drain Wire Type	Solid

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

©2016 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommScope.
All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: January 16, 2016

Product Specifications

4667004/10 | 5ENS4 WHITE REEL

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	1.9	65.3	83.1	63.3	81.2	62.3	80.8	60.3	78.9	63.8	84.4	60.8	82.4	20.0	33.0
4	4.1	3.7	56.3	73.4	52.2	69.8	53.3	71.3	49.2	67.6	51.8	73.3	48.8	71.4	23.0	30.6
8	5.8	5.2	51.8	69.0	46.0	63.9	48.8	67.0	43.0	61.8	45.7	67.4	42.7	65.5	24.5	31.5
10	6.5	5.8	50.3	67.2	43.8	61.4	47.3	65.1	40.8	59.3	43.8	65.4	40.8	63.5	25.0	32.4
16	8.2	7.4	47.2	64.1	39.0	56.8	44.2	62.0	36.0	54.7	39.7	61.3	36.7	59.4	25.0	31.8
20	9.3	8.2	45.8	62.6	36.5	54.4	42.8	60.5	33.5	52.2	37.8	59.4	34.8	57.4	25.0	33.0
25	10.4	9.2	44.3	60.9	33.9	51.6	41.3	58.8	30.9	49.6	35.8	57.6	32.8	55.5	24.3	33.1
31.25	11.7	10.3	42.9	59.6	31.2	49.2	39.9	57.4	28.2	47.1	33.9	55.6	30.9	53.5	23.6	33.4
62.5	17.0	14.7	38.4	54.4	21.4	39.8	35.4	52.4	18.4	37.7	27.9	49.5	24.9	47.4	21.5	32.9
100	22.0	18.6	35.3	51.0	13.3	32.4	32.3	48.9	10.3	30.2	23.8	45.5	20.8	43.3	20.1	29.9
155		23.4		46.9		23.5		45.1		21.7		41.3		39.3		28.0
200		26.7		45.1		18.4		43.2		16.5		39.1		37.0		26.0
250		29.9		44.8		14.9		42.7		12.8		37.1		35.1		25.1
300		32.9		43.0		10.1		40.9		8.0		35.6		33.4		25.0
350		35.7		41.6		5.9		39.7		3.9		34.1		31.8		25.6

©2016 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommScope.
All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: January 16, 2016