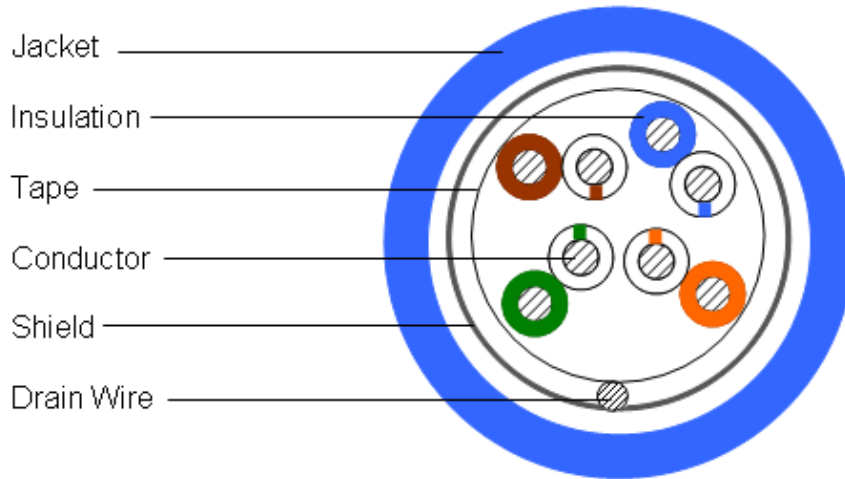




8744604/10 | 5ES4 BLUE REEL

**Datapipe® 5ES4 Category 5e F/UTP Cable, plenum, blue 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	FEP
Shield (Tape) Material	Aluminum/Polyester

## Dimensions

Cable Length	305 m   1000 ft
Cable Weight	29.58 lb/kft
Diameter Over Jacket	5.969 mm   0.235 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)	73 %
Operating Frequency, maximum	100 MHz
Transmission Standards	ANSI/TIA-568-C.2   CENELEC EN 50288-6-1   ISO/IEC 11801 Class E
Safety Voltage Rating	300 V

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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)

## General Specifications

Cable Type	F/UTP (shielded)
Pairs, quantity	4
Cable Component Type	Horizontal
Packaging Type	Reel
Brand	Datapipe®   Uniprise®
Jacket Color	Blue
Product Number	5ES4
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
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## 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
- 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