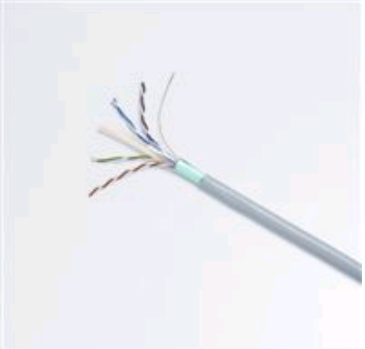
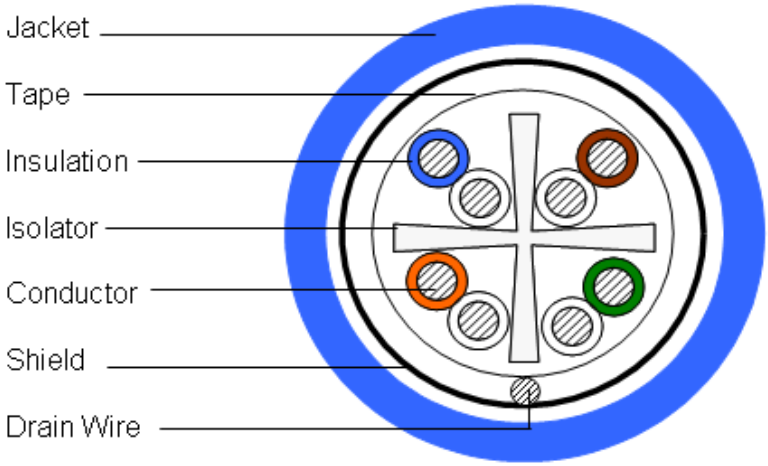
Product Specifications



8463104/10 | 10GNS4ZH-i BLUE REEL

Ultra 10® 10GNS4ZH-i ETL Verified Category 6A F/UTP Cable, low smoke zero halogen, blue jacket, 4 pair count, 1000 ft (305 m) length, reel

Cross Section Drawing



Construction Materials

Conductor Material	Bare copper
Drain Wire Material	Tinned copper
Insulation Material	Polyolefin
Jacket Material	Low Smoke Zero Halogen (LSZH)
Separator Material	Polyolefin
Shield (Tape) Material	Polyester/Aluminum shield

Dimensions

Cable Length	305 m | 1000 ft
Cable Weight	35.15 lb/kft
Diameter Over Jacket	7.518 mm | 0.296 in
Jacket Thickness	0.508 mm | 0.020 in

Electrical Specifications

ANSI/TIA Category	6A
dc Resistance Unbalance, maximum	4 %

dc Resistance, maximum	8.00 ohms/100 m
Delay Skew	45 ns
Mutual Capacitance	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	68 %
Operating Frequency, maximum	500 MHz
Operating Voltage, maximum	80 V
Transmission Standards	ANSI/TIA-568-C.2
Dielectric Strength, minimum	1500 Vac	2500 Vdc

Environmental Specifications

Environmental Space	Low Smoke Zero Halogen (LSZH)
Acid Gas Test Method	IEC 60754-2
Flame Test Method	IEC 60332-3-22
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

Brand	Ultra 10®	Uniprise®
Cable Component Type	Horizontal
Cable Type	F/UTP (shielded)
Pairs, quantity	4
Jacket Color	Blue
Conductor Gauge, singles	23 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
Drain Wire Gauge	24 AWG
Drain Wire Type	Solid
Separator Type	Isolator
Packaging Type	Reel
Product Number	10GNS4ZH-i

Mechanical Specifications

Pulling Tension, maximum	11 kg	25 lb

Regulatory Compliance/Certifications

Agency	**Classification**
RoHS 2002/95/EC	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

Product Specifications

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Electrical Performance

Std	Standard (ANSI/TIA-568)
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)
TCL	Transverse Conversion Loss (dB/100m)
ELTCTL	Equal Level Transverse Conversion Transfer Loss (dB/100m)

Freq. MHz	IL		NEXT		ACR		PSNEXT		PSACR		ACRF		PSACRF		RL		TCL	ELTCTL
	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Std
1	2.1	1.8	74.3	91.3	72.2	89.5	72.3	89.2	70.2	87.4	67.8	91.0	64.8	88.8	20.0	33.5	40.0	35.0
4	3.8	3.5	65.3	81.8	61.5	78.3	63.3	79.8	59.5	76.3	55.8	81.3	52.8	79.4	23.0	35.7	40.0	23.0
8	5.3	4.9	60.8	76.9	55.4	72.0	58.8	75.0	53.4	70.1	49.7	75.3	46.7	73.4	24.5	36.3	40.0	16.9
10	5.9	5.5	59.3	75.2	53.4	69.7	57.3	73.3	51.4	67.8	47.8	73.6	44.8	71.7	25.0	36.8	40.0	15.0
16	7.5	7.0	56.2	72.7	48.8	65.7	54.2	70.5	46.8	63.5	43.7	69.7	40.7	67.7	25.0	37.4	38.0	10.9
20	8.4	7.8	54.8	70.8	46.4	62.9	52.8	68.8	44.4	60.9	41.8	67.6	38.8	65.7	25.0	37.6	37.0	9.0
25	9.4	8.8	53.3	69.3	44.0	60.5	51.3	67.2	42.0	58.5	39.8	65.6	36.8	63.7	24.3	37.3	36.0	7.0
31.25	10.5	9.8	51.9	68.0	41.4	58.2	49.9	66.0	39.4	56.2	37.9	63.7	34.9	61.8	23.6	36.5	35.1	
62.5	15.0	13.9	47.4	62.7	32.4	48.7	45.4	60.7	30.4	46.8	31.9	57.7	28.9	55.7	21.5	33.5	32.0	
100	19.1	17.7	44.3	58.6	25.2	40.9	42.3	56.8	23.2	39.1	27.8	53.4	24.8	51.3	20.1	30.4	30.0	
155	24.1	22.2	41.4	56.7	17.4	34.5	39.4	54.3	15.4	32.1	24.0	49.4	21.0	47.5	18.8	28.6	28.1	
200	27.6	25.3	39.8	53.3	12.2	28.0	37.8	51.4	10.2	26.1	21.8	47.7	18.8	45.7	18.0	27.6	27.0	
250	31.1	28.4	38.3	52.4	7.3	24.0	36.3	50.3	5.3	21.9	19.8	45.8	16.8	43.7	17.3	26.5	26.0	
300	34.3	31.2	37.1	51.6	2.9	20.4	35.1	49.5	0.9	18.3	18.3	43.9	15.3	41.8	16.8	26.9	25.2	
350	37.2	33.8	36.1	50.8	-1.1	17.0	34.1	48.7	-3.1	14.9	16.9	42.2	13.9	40.1	16.3	27.0	24.6	
400	40.1	36.3	35.3	50.5	-4.8	14.2	33.3	48.3	-6.8	12.0	15.8	41.0	12.8	38.9	15.9	26.7	24.0	
500	45.3	40.9	33.8	47.3	-11.4	6.4	31.8	45.2	-13.4	4.3	13.8	38.3	10.8	36.0	15.2	26.9	23.0	