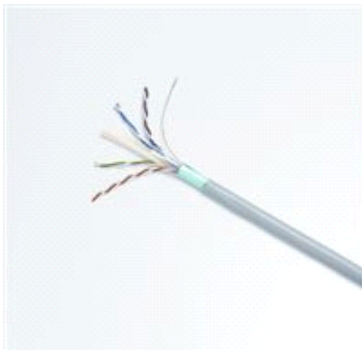
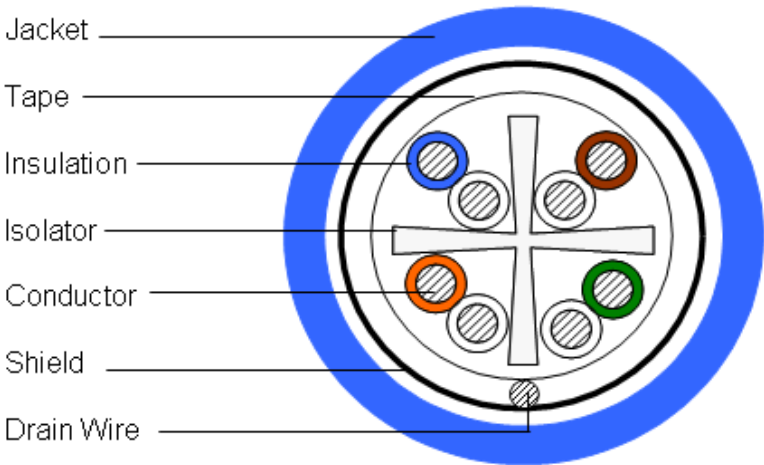




Uniprise Solutions
8463104/10 | 10GNS4ZH-i BLUE REEL
Ultra 10® 10GNS4ZH-i ETL Verified Category 6A F/UTP Cable, low smoke zero halogen, blue jacket, 4 pair count, 1000 ft (305 m) length, reel

Cross Section Drawing



Construction Materials

Jacket Material	Low Smoke Zero Halogen (LSZH)
Conductor Material	Bare copper
Drain Wire Material	Tinned copper
Insulation Material	Polyolefin
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 %

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dc Resistance, maximum	8.00 ohms/100 m
Delay Skew, maximum	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

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

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

Product Specifications

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Std	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above		
Typ	Typical		
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)	TCL	Transverse Conversion Loss (dB/100m)
PSNEXT	Power Sum Near End Crosstalk (db/100m)	ELTCTL	Equal Level Transverse Conversion Transfer Loss (dB/100m)
PSACR	Power Sum Attenuation to Crosstalk Ratio (dB/100m)		
ACRF	Attenuation to Crosstalk Ratio - Far End (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	