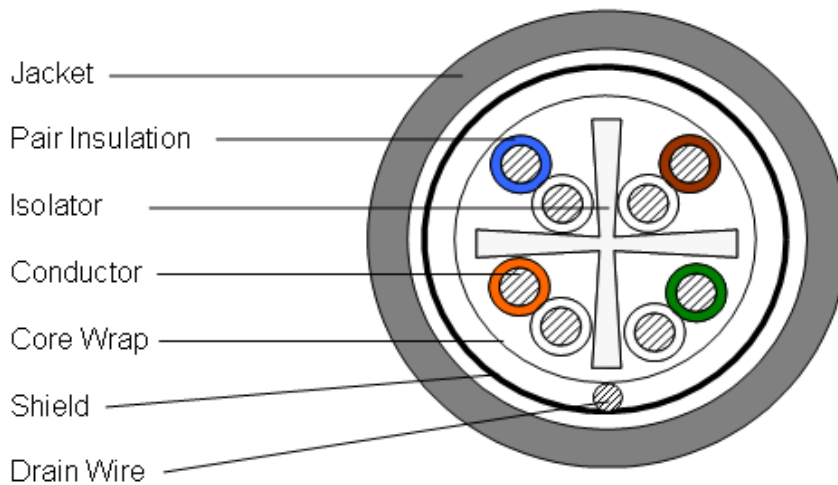


Uniprise Solutions

8462604/10 | 65NS4-i GRAY REEL

Media 6@ 65NS4-i Category 6 F/UTP Cable, non-plenum, gray 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
Separator Material	Polyolefin
Shield (Tape) Material	Polyester/Aluminum shield

Dimensions

Cable Length	305 m 1000 ft
Cable Weight	34.10 lb/kft
Diameter Over Jacket	7.315 mm 0.288 in
Jacket Thickness	0.508 mm 0.020 in

Electrical Specifications

ANSI/TIA Category	6
Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	9.38 ohms/100 m

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Delay Skew, maximum	45 ns
Mutual Capacitance	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	69 %
Operating Frequency, maximum	250 MHz
Operating Voltage, maximum	80 V
Transmission Standards	ANSI/TIA-568-C.2 CENELEC EN 50288-6-1 ISO/IEC 11801 Class E
Dielectric Strength, minimum	1500 Vac 2500 Vdc
Note	All electrical transmission tests include swept frequency measurements

Environmental Specifications

Environmental Space	Non-plenum
Flame Test Method	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	Media 6® Uniprise®
Jacket Color	Gray
Product Number	65NS4-i
Conductor Gauge, singles	23 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
Drain Wire Gauge	24 AWG
Drain Wire Type	Solid
Ordering Note	Available in Asia Pacific
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									
IL	Insertion Loss (dB/100m)					ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)			
NEXT	Near End Crosstalk (dB/100m)					PSACRF	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)			
ACR	Attenuation to Crosstalk Ratio (dB/100m)					RL	Return Loss (dB)			
PSNEXT	Power Sum Near End Crosstalk (db/100m)					TCL	Transverse Conversion Loss (dB/100m)			
PSACR	Power Sum Attenuation to Crosstalk Ratio (dB/100m)					ELTCTL	Equal Level Transverse Conversion Transfer Loss (dB/100m)			

Freq. MHz	IL	NEXT	ACR	PSNEXT	PSACR	ACRF	PSACRF	RL	TCL	ELTCTL
	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
1	2.1	74.3	72.2	72.3	70.2	67.8	64.8	20.0	40.0	35.0
4	4.1	65.3	61.1	63.3	59.1	55.8	52.8	23.0	40.0	23.0
8	6.0	60.8	54.7	58.8	52.7	49.7	46.7	24.5	40.0	16.9
10	6.9	59.3	52.4	57.3	50.4	47.8	44.8	25.0	40.0	15.0
16	9.0	56.2	47.2	54.2	45.2	43.7	40.7	25.0	38.0	10.9
20	10.3	54.8	44.5	52.8	42.5	41.8	38.8	25.0	37.0	9.0
25	11.8	53.3	41.6	51.3	39.6	39.8	36.8	24.3	36.0	7.0
31.25	13.5	51.9	38.4	49.9	36.4	37.9	34.9	23.6	35.1	
62.5	21.0	47.4	26.4	45.4	24.4	31.9	28.9	21.5	32.0	
100	28.8	44.3	15.5	42.3	13.5	27.8	24.8	20.1	30.0	
155	39.1	41.4	2.3	39.4	0.3	24.0	21.0	18.8	28.1	
200	47.0	39.8	-7.2	37.8	-9.2	21.8	18.8	18.0	27.0	
250	55.3	38.3	-17.0	36.3	-19.0	19.8	16.8	17.3	26.0	