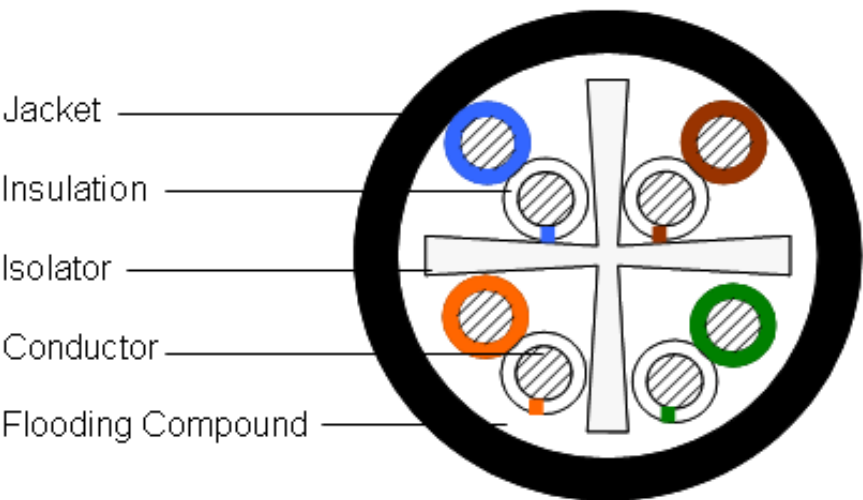




4665904/10 | 6NF4+ BLACK REEL

Media 6@ 6NF4+ Category 6 U/UTP filled Cable, outdoor direct burial, black jacket, 4 pair count, 1000 ft (305 m) length, reel

Cross Section Drawing



Construction Materials

Jacket Material	PE
Conductor Material	Bare copper
Insulation Material	Polyolefin
Separator Material	Polyolefin

Dimensions

Cable Length	305 m 1000 ft
Cable Weight	26.40 lb/kft
Diameter Over Jacket	6.604 mm 0.260 in
Jacket Thickness	0.660 mm 0.026 in

Electrical Specifications

ANSI/TIA Category	6
Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	9.38 ohms/100 m
Delay Skew, maximum	45 ns
Mutual Capacitance	6.0 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	65 %
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	UV resistant for outdoor and/or direct burial installations
Installation Temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)

General Specifications

Cable Type	U/UTP (unshielded)
Pairs, quantity	4
Cable Component Type	Horizontal
Packaging Type	Reel
Brand	Media 6® Uniprise®
Jacket Color	Black
Product Number	6NF4+
Conductor Gauge, singles	24 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
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

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)
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	2.0	1.8	74.3	93.3	72.3	91.5	72.3	91.4	70.3	89.6	67.8	85.5	64.8	84.4	20.0	31.1	40.0	35.0
4	3.8	3.5	65.3	84.7	61.5	81.2	63.3	82.6	59.5	79.1	55.8	73.6	52.8	72.6	23.0	29.0	40.0	23.0
8	5.3	5.0	60.8	80.7	55.4	75.7	58.8	78.7	53.4	73.7	49.7	67.8	46.7	66.7	24.5	30.3	40.0	16.9
10	6.0	5.5	59.3	79.6	53.3	74.0	57.3	77.3	51.3	71.8	47.8	65.8	44.8	64.7	25.0	31.2	40.0	15.0
16	7.6	7.0	56.2	76.6	48.7	69.6	54.2	74.5	46.7	67.4	43.7	61.7	40.7	60.6	25.0	33.4	38.0	10.9
20	8.5	7.9	54.8	75.7	46.3	67.8	52.8	73.4	44.3	65.5	41.8	59.8	38.8	58.7	25.0	35.2	37.0	9.0
25	9.5	8.8	53.3	73.9	43.8	65.1	51.3	71.6	41.8	62.8	39.8	57.9	36.8	56.8	24.3	36.0	36.0	7.0
31.25	10.7	9.9	51.9	72.5	41.2	62.7	49.9	70.3	39.2	60.4	37.9	55.9	34.9	54.8	23.6	36.1	35.1	
62.5	15.4	14.0	47.4	68.0	32.0	54.0	45.4	66.1	30.0	52.0	31.9	49.6	28.9	48.7	21.5	33.5	32.0	
100	19.8	17.9	44.3	65.3	24.5	47.4	42.3	63.4	22.5	45.5	27.8	45.6	24.8	44.7	20.1	30.0	30.0	
155	25.2	22.4	41.4	61.7	16.3	39.3	39.4	59.3	14.3	36.8	24.0	41.7	21.0	40.8	18.8	27.3	28.1	
200	29.0	25.7	39.8	60.5	10.8	34.9	37.8	58.5	8.8	32.9	21.8	39.5	18.8	38.6	18.0	26.1	27.0	
250	32.8	28.8	38.3	58.3	5.5	29.5	36.3	56.2	3.5	27.4	19.8	37.6	16.8	36.6	17.3	25.4	26.0	
300		31.7		57.1		25.4		55.0		23.3		36.1		35.1		25.8		
350		34.4		55.3		20.8		53.1		18.7		34.3		33.2		26.5		
400		37.1		53.2		16.1		51.0		13.9		32.7		31.4		28.3		
500		42.0		49.2		7.2		47.3		5.3		29.4		28.4		32.8		
550		42.2		48.6		6.4		46.7		4.6		29.4		28.3		32.6		
650		48.5		48.9		0.5		46.7		-1.8		25.4		24.0		21.7		