

6NF4+ BLACK REEL

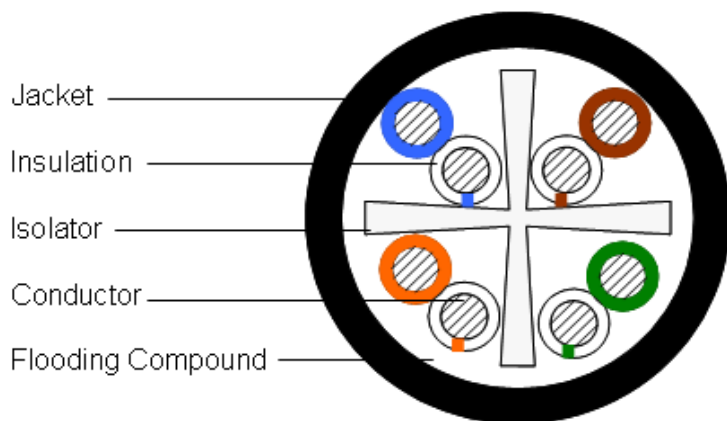
Material ID: 4665904/10

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



CHARACTERISTICS

Cross Section Drawing



Construction Materials

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

Dimensions

Cable Length	305 m 1000 ft
Cable Weight	30.01 lb/kft
Diameter Over Jacket	6.350 mm 0.250 in
Jacket Thickness	0.508 mm 0.020 in

Electrical Specifications

ANSI/TIA Category	6
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Product Specifications



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dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	9.38 ohms/100 m
Delay Skew	45 ns
Mutual Capacitance	6.0 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	62 %
Operating Frequency, maximum	250 MHz
Transmission Standards	ANSI/TIA-568-C.2 CENELEC EN 50288 -6-1 ISO/IEC 11801 Class E
Note	All electrical transmission tests include swept frequency measurements Delay has been derated by 5% due to the water proofing agents The maximum permanent link length is reduced from 295 feet to 280 feet as a result of the delay derating

Environmental Specifications

Environmental Space	UV resistant for outdoor and/or direct burial installations
Installation Temperature	0 °C to +60 °C (+32 °F to +140 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)

General Specifications

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

Mechanical Specifications

Pulling Tension, maximum	11 kg 25 lb
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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)	
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	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0	40.0	35.0
4	3.8	65.3	61.5	63.3	59.5	55.8	52.8	23.0	40.0	23.0
8	5.3	60.8	55.4	58.8	53.4	49.7	46.7	24.5	40.0	16.9
10	6.0	59.3	53.3	57.3	51.3	47.8	44.8	25.0	40.0	15.0
16	7.6	56.2	48.7	54.2	46.7	43.7	40.7	25.0	38.0	10.9
20	8.5	54.8	46.3	52.8	44.3	41.8	38.8	25.0	37.0	9.0
25	9.5	53.3	43.8	51.3	41.8	39.8	36.8	24.3	36.0	7.0
31.25	10.7	51.9	41.2	49.9	39.2	37.9	34.9	23.6	35.1	
62.5	15.4	47.4	32.0	45.4	30.0	31.9	28.9	21.5	32.0	
100	19.8	44.3	24.5	42.3	22.5	27.8	24.8	20.1	30.0	
155	25.2	41.4	16.3	39.4	14.3	24.0	21.0	18.8	28.1	
200	29.0	39.8	10.8	37.8	8.8	21.8	18.8	18.0	27.0	
250	32.8	38.3	5.5	36.3	3.5	19.8	16.8	17.3	26.0	