

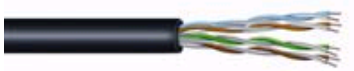
# Product Specifications



## 5NF4 BLACK REEL

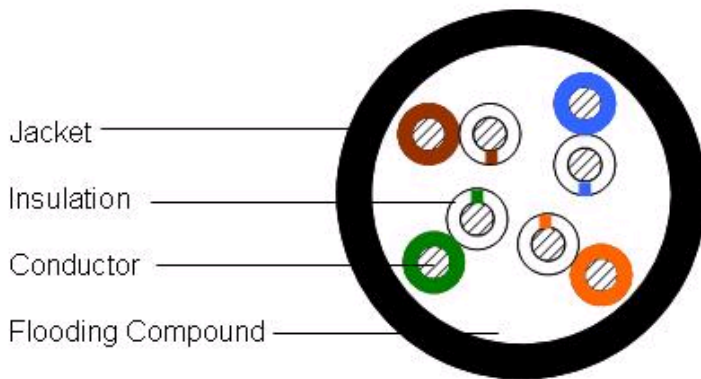
Material ID: 4286104/10

Ultra II® 5NF4 Category 5e 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

### Dimensions

Cable Length	305 m   1000 ft
Cable Weight	27.63 lb/kft
Diameter Over Jacket	6.096 mm   0.240 in
Jacket Thickness	0.762 mm   0.030 in

### Electrical Specifications

ANSI/TIA Category	5e
dc Resistance Unbalance, maximum	5 %

# Product Specifications



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dc Resistance, maximum	9.38 ohms/100 m
Delay Skew	15 ns
Mutual Capacitance	4.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	65 %
Operating Frequency, maximum	350 MHz
Transmission Standards	ANSI/TIA-568-C.2   CENELEC EN 50288 -6-1   ISO/IEC 11801 Class E
Safety Voltage Rating	300 V
Dielectric Strength, minimum	1500 Vac   2500 Vdc
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	-20 °C to +60 °C (-4 °F to +140 °F)

## General Specifications

Brand	Ultra II®   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
Packaging Type	Reel
Product Number	5NF4

## 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



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## Electrical Performance

CS	CommScope	PSACR	Power Sum Attenuation to Crosstalk Ratio (dB/100m)
Std	Standard (ANSI/TIA-568)	ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
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)		
PSNEXT	Power Sum Near End Crosstalk (db/100m)		

Freq. MHz	IL		NEXT		ACR		PSNEXT		PSACR		ACRF		PSACRF		RL	
	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std
1	2.0	2.0	70.3	65.3	68.3	63.3	68.3	62.3	66.3	60.3	67.8	63.8	65.8	60.8	20.0	20.0
4	3.9	4.1	61.3	56.3	57.3	52.2	59.3	53.3	55.3	49.2	55.8	51.8	53.8	48.8	23.3	23.0
8	5.6	5.8	56.8	51.8	51.2	46.0	54.8	48.8	49.2	43.0	49.7	45.7	47.7	42.7	25.0	24.5
10	6.2	6.5	55.3	50.3	49.1	43.8	53.3	47.3	47.1	40.8	47.8	43.8	45.8	40.8	25.5	25.0
16	7.9	8.2	52.2	47.2	44.3	39.0	50.2	44.2	42.3	36.0	43.7	39.7	41.7	36.7	25.5	25.0
20	8.9	9.3	50.8	45.8	41.9	36.5	48.8	42.8	39.9	33.5	41.8	37.8	39.8	34.8	25.5	25.0
25	10.0	10.4	49.3	44.3	39.3	33.9	47.3	41.3	37.3	30.9	39.8	35.8	37.8	32.8	24.8	24.3
31.25	11.3	11.7	47.9	42.9	36.6	31.2	45.9	39.9	34.6	28.2	37.9	33.9	35.9	30.9	24.1	23.6
62.5	16.3	17.0	43.4	38.4	27.1	21.4	41.4	35.4	25.1	18.4	31.9	27.9	29.9	24.9	22.0	21.5
100	21.0	22.0	40.3	35.3	19.3	13.3	38.3	32.3	17.3	10.3	27.8	23.8	25.8	20.8	20.6	20.1
155	26.8		37.4		10.7		35.4		8.7		24.0		22.0		19.3	
200	30.9		35.8		4.9		33.8		2.9		21.8		19.8		18.5	
250	35.0		34.3		-0.7		32.3		-2.7		19.8		17.8		17.8	
300	38.9		33.1		-5.8		31.1		-7.8		18.3		16.3		17.3	
350	42.6		32.1		-10.4		30.1		-12.4		16.9		14.9		16.8	