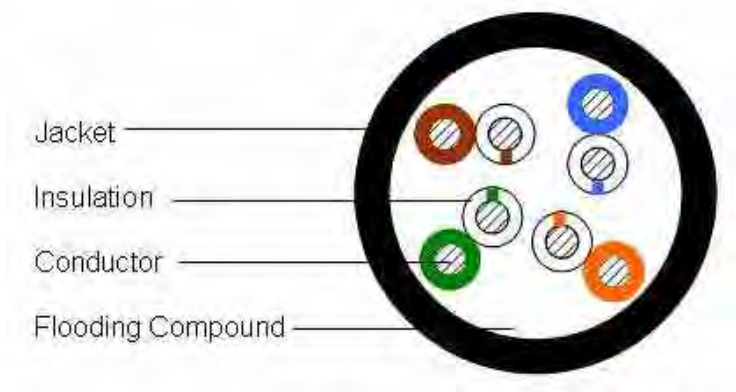




4286104/10 | 5NF4 BLACK REEL  
**Ultra II® 5NF4 Category 5e U/UTP filled Cable, outdoor direct burial, black jacket, 4 pair count, 1000 ft (305 m) length, reel**

### Cross Section Drawing



### Construction Materials

Jacket Material	PE
Conductor Material	Bare copper
Insulation Material	Polyolefin

### 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
Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	9.38 ohms/100 m
Delay Skew, maximum	45 ns
Mutual Capacitance	4.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	65 %
Operating Frequency, maximum	350 MHz
Operating Voltage, maximum	80 V
Transmission Standards	ANSI/TIA-568-C.2   CENELEC EN 50288-3-1   ISO/IEC 11801 Class D
Safety Voltage Rating	300 V
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	-20 °C to +60 °C (-4 °F to +140 °F)

### General Specifications

Cable Type	U/UTP (unshielded)
Pairs, quantity	4
Cable Component Type	Horizontal
Packaging Type	Reel

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Brand	Ultra II®   Uniprise®
Jacket Color	Black
Product Number	5NF4
Conductor Gauge, singles	24 AWG
Conductor Type, singles	Solid
Conductors, quantity	8

## Mechanical Specifications

Pulling Tension, maximum	11 kg   25 lb
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



# Product Specifications



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## Electrical Performance

CS	CommScope
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)

Freq. MHz	IL			NEXT			ACR			PSNEXT			PSACR			ACRF			PSACRF			RL		
	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ
1	2.0	2.0	1.8	70.3	65.3	87.9	68.3	63.3	86.1	68.3	62.3	86.0	66.3	60.3	84.2	67.8	63.8	81.0	65.8	60.8	79.8	20.0	20.0	31.5
4	3.9	4.1	3.5	61.3	56.3	79.0	57.3	52.2	75.5	59.3	53.3	77.0	55.3	49.2	73.4	55.8	51.8	69.0	53.8	48.8	67.9	23.3	23.0	29.8
8	5.6	5.8	5.0	56.8	51.8	74.0	51.2	46.0	69.0	54.8	48.8	72.0	49.2	43.0	67.0	49.7	45.7	62.8	47.7	42.7	61.7	25.0	24.5	32.8
10	6.2	6.5	5.6	55.3	50.3	72.5	49.1	43.8	66.9	53.3	47.3	70.7	47.1	40.8	65.1	47.8	43.8	60.9	45.8	40.8	59.8	25.5	25.0	34.3
16	7.9	8.2	7.1	52.2	47.2	69.8	44.3	39.0	62.8	50.2	44.2	67.7	42.3	36.0	60.6	43.7	39.7	56.8	41.7	36.7	55.7	25.5	25.0	37.4
20	8.9	9.3	7.9	50.8	45.8	68.4	41.9	36.5	60.5	48.8	42.8	66.2	39.9	33.5	58.3	41.8	37.8	54.9	39.8	34.8	53.7	25.5	25.0	38.1
25	10.0	10.4	8.9	49.3	44.3	67.4	39.3	33.9	58.5	47.3	41.3	65.3	37.3	30.9	56.4	39.8	35.8	52.9	37.8	32.8	51.7	24.8	24.3	37.2
31.25	11.3	11.7	9.9	47.9	42.9	66.2	36.6	31.2	56.3	45.9	39.9	64.2	34.6	28.2	54.2	37.9	33.9	50.9	35.9	30.9	49.7	24.1	23.6	34.4
62.5	16.3	17.0	14.2	43.4	38.4	62.3	27.1	21.4	48.1	41.4	35.4	60.2	25.1	18.4	46.0	31.9	27.9	44.5	29.9	24.9	43.3	22.0	21.5	30.7
100	21.0	22.0	18.1	40.3	35.3	59.6	19.3	13.3	41.5	38.3	32.3	57.3	17.3	10.3	39.1	27.8	23.8	39.8	25.8	20.8	38.7	20.6	20.1	27.7
155	26.8		22.8	37.4		55.8	10.7		33.0	35.4		53.9	8.7		31.1	24.0		36.2	22.0		34.8	19.3		24.8
200	30.9		26.1	35.8		54.7	4.9		28.6	33.8		52.3	2.9		26.2	21.8		33.5	19.8		32.3	18.5		24.0
250	35.0		29.3	34.3		53.1	-0.7		23.7	32.3		50.9	-2.7		21.6	19.8		31.8	17.8		30.5	17.8		23.5
300	38.9		32.2	33.1		50.4	-5.8		18.1	31.1		48.3	-7.8		16.1	18.3		30.5	16.3		29.2	17.3		23.8
350	42.6		35.0	32.1		48.7	-10.4		13.6	30.1		46.7	-12.4		11.7	16.9		28.6	14.9		27.2	16.8		24.8