

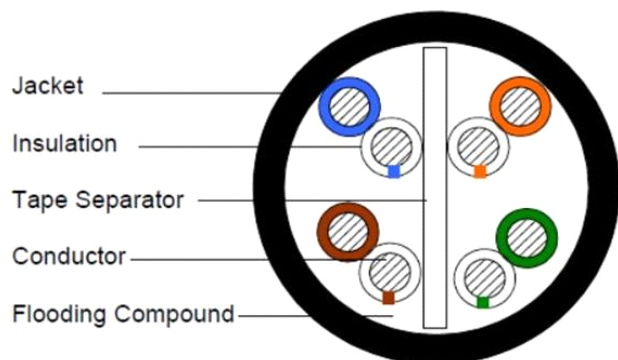
4286104/10 | 5NF4 BLACK REEL

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

Product Classification

Portfolio	Uniprise®
Brand	Ultra II®
Product Type	Twisted pair cable
Regional Availability	North America

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, nominal	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 at Frequency	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	-40 °C to +70 °C (-40 °F to +158 °F)

General Specifications

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

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



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