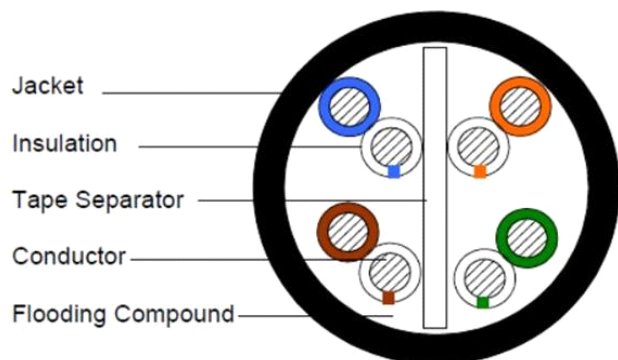


Ultra II® 5NF4 Category 5e U/UTP filled Cable, outdoor direct burial, black jacket, 4 pair count, 3000 ft (914 m) length, reel

## Product Classification

<b>Portfolio</b>	Uniprise®
<b>Brand</b>	Ultra II®
<b>Product Type</b>	Twisted pair cable
<b>Regional Availability</b>	North America

## Cross Section Drawing



## Construction Materials

<b>Jacket Material</b>	PE
<b>Conductor Material</b>	Bare copper
<b>Insulation Material</b>	Polyolefin

## Dimensions

<b>Cable Length</b>	914 m   3000 ft
<b>Cable Length Tolerance</b>	±5%
<b>Cable Weight</b>	27.63 lb/kft
<b>Diameter Over Jacket, nominal</b>	6.096 mm   0.240 in
<b>Jacket Thickness</b>	0.762 mm   0.030 in

## Electrical Specifications

<b>ANSI/TIA Category</b>	5e
<b>Characteristic Impedance</b>	100 ohm
<b>dc Resistance Unbalance, maximum</b>	5 %
<b>dc Resistance, maximum</b>	9.38 ohms/100 m

<b>Delay Skew, maximum</b>	45 ns
<b>Mutual Capacitance at Frequency</b>	4.6 nF/100 m @ 1 kHz
<b>Nominal Velocity of Propagation (NVP)</b>	65 %
<b>Operating Frequency, maximum</b>	350 MHz
<b>Operating Voltage, maximum</b>	80 V
<b>Transmission Standards</b>	ANSI/TIA-568-C.2   CENELEC EN 50288-3-1   ISO/IEC 11801 Class D
<b>Safety Voltage Rating</b>	300 V
<b>Dielectric Strength, minimum</b>	1500 Vac   2500 Vdc
<b>Note</b>	All electrical transmission tests include swept frequency measurements

## Environmental Specifications

<b>Environmental Space</b>	UV resistant for outdoor and/or direct burial installations
<b>Installation Temperature</b>	-30 °C to +70 °C (-22 °F to +158 °F)
<b>Operating Temperature</b>	-40 °C to +70 °C (-40 °F to +158 °F)

## General Specifications

<b>Cable Type</b>	U/UTP (unshielded)
<b>Packaging Type</b>	Reel
<b>Pairs, quantity</b>	4
<b>Cable Component Type</b>	Horizontal
<b>Jacket Color</b>	Black
<b>Product Number</b>	5NF4
<b>Conductor Gauge, singles</b>	24 AWG
<b>Conductor Type, singles</b>	Solid
<b>Conductors, quantity</b>	8

## Mechanical Specifications

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

<b>Agency</b>	<b>Classification</b>
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