

## INSIDE CABLE CATEGORY 5E



**DESCRIPTION:**

- 24 gauge solid bare copper conductor
- Polyethylene insulation
- Insulated conductors twisted into pairs
- PVC Jacket
- CMR

**FEATURES:**

Category 5E and ETL listed, intended for horizontal installation.

Standard put-ups are 1000 foot reels, boxes or reel-in-a-box.

**SPECIFICATIONS:**

NEC 800 **RoHS**  
ANSI/EIA/TIA 568-B.2-1

Product Code	Number of Pairs	Overall Diameter	Net Weight Lb/mft	Jacket Thickness	Insulation Thickness
664455 <sup>+</sup>	4	0.189"	18	0.017"	0.0073"
664455CM <sup>-</sup>	4	0.200"	18	0.017"	0.0073"
664463 <sup>+</sup>	6	0.228"	25	0.017"	0.0073"

+ CMR Rated Cable ~ CM Rated Cable

Conductor Resistance d.c. Maximum @ 20°C	Mutual Capacitance pf/ft	Characteristic Impedance Ω 1 to 100 MHz	Delay Skew Maximum ns	Return Loss Minimal (fin MHz) dB
25 Ω/ft	14	100 ± 15	45	25 (20 ≥ f)
				25 - 5 log(f/20) (100 ≥ f ≥ 20)

Transmission Characteristics			
Frequency MHz	Maximum Attenuation dB/100 m	Minimum NEXT Loss dB/100 m	Minimum FEXT Loss dB/100 m
4	4.1	53	49
10	6.5	47	41
16	8.2	44	37
31	11.7	40	31
100	22.0	32	21
200	32*	28*	18*
250	35*	26*	16*
350	40*	24*	11*

\*Typical values, there are no specified values at this frequency in the specification

## INDOOR CABLE CATEGORY 5E PLENUM

\*All values are nominal, and subject to manufacturing tolerances.



**DESCRIPTION:**

- 24 gauge solid bare copper conductor
- FEP insulation
- Insulated conductors twisted into pairs
- Low smoke PVC Jacket
- CMP

**FEATURES:**

Category 5E verified and ETL listed, intended for horizontal, riser and plenum installation.

Standard put-ups are 1000 foot reels, boxes and reel-in-a-box.

**SPECIFICATIONS:**

NEC 800 **RoHS**  
ANSI/EIA/TIA 568-B.2-1

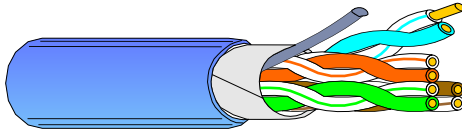
Product Code	Number of Pairs	Overall Diameter	Net Weight Lb/mft	Jacket Thickness	Insulation Thickness
664373	4	0.195"	21	0.013"	0.0065"

Conductor Resistance d.c. Maximum @ 20°C	Mutual Capacitance pf/ft	Characteristic Impedance Ω 1 to 100 MHz	Delay Skew Maximum ns	Return Loss Minimal (fin MHz) dB
25 Ω/ft	14	100 ± 15	45	25 (20 ≥ f)
				25 - 5 log(f/20) (100 ≥ f ≥ 20)

Transmission Characteristics			
Frequency MHz	Maximum Attenuation dB/100 m	Minimum NEXT Loss dB/100 m	Minimum FEXT Loss dB/100 m
4	4.1	53	49
10	6.5	47	41
16	8.2	44	37
31	11.7	40	31
100	22.0	32	21
200	32*	28*	18*
250	35*	26*	16*
350	40*	24*	11*

\*Typical values, there are no specified values at this frequency in the specification

## INSIDE CABLE CATEGORY 5E - SHIELDED



**DESCRIPTION:**

- 24 gauge solid bare copper conductor
- Polyethylene insulation
- Insulated conductors twisted into pairs
- Tinned copper drain wire
- Foil Shield
- -10 C to 60 C
- PVC Jacket
- CMR or CM

**FEATURES:**

Category 5E and ETL listed

**SPECIFICATIONS:**

CMR Rated, ISO/IEC 11801  
ANSI/EIA/TIA 568-B.2-1

**RoHS**

Standard put-ups are 1000 foot reels, boxes or reel-in-a-box.

Product Code	Number of Pairs	Overall Diameter	Net Weight Lb/mft	Jacket Thickness	Insulation Thickness
664405	4	0.276"	30	0.024"	0.010"

Conductor Resistance d.c. Maximum @ 20°C	Mutual Capacitance pf/ft	Characteristic Impedance Ω 1 to 100 MHz	Delay Skew Maximum ns	Return Loss Minimal (fin MHz) dB
25 Ω/ft	14	100 ± 15	45	25 (20 ≥ f) 25 - 5 log(f/20) (100 ≥ f ≥ 20)

Transmission Characteristics			
Frequency MHz	Maximum Attenuation dB/100 m	Minimum NEXT Loss dB/100 m	Minimum FEXT Loss dB/100 m
4	4.1	53	49
10	6.5	47	41
16	8.2	44	37
31	11.7	40	31
100	22.0	32	21
200*	32*	28*	18*
250*	35*	26*	16*

\*Typical values, there are no specified values at this frequency in the specification

## INSIDE CABLE CATEGORY 5E - STRANDED

\*All values are nominal, and subject to manufacturing tolerances.



**DESCRIPTION:**

- 24 gauge stranded bare copper conductor
- Polyethylene insulation
- Insulated conductors twisted into pairs
- PVC Jacket
- CMR or CM

**FEATURES:**

Category 5E verified and ETL listed

Standard put-ups are 1000 foot reels, boxes and reel-in-a-box.

**SPECIFICATIONS:**

NEC 800, CM rated  
ANSI/EIA/TIA 568-B.2-1

**RoHS**

Product Code	Number of Pairs	Conductor Construction Wires/AWG	Overall Diameter	Net Weight Lb/mft	Jacket Thickness	Insulation Thickness
664555	4	7/32	0.217"	24	0.020"	0.0071"

Conductor Resistance d.c. Maximum @ 20°C	Mutual Capacitance pf/ft	Characteristic Impedance Ω 1 to 100 MHz	Delay Skew Maximum ns	Return Loss Minimal (fin MHz) dB
25 Ω/ft	14	100 ± 15	45	25 (20 ≥ f) 25 - 5 log(f/20) (100 ≥ f ≥ 20)

Transmission Characteristics		
Frequency MHz	Maximum Attenuation dB/100 m	Minimum NEXT Loss dB/100 m
4	4.9	56
10	7.8	50
16	9.9	47
31	14.1	43
100	26.4	36
200*	34.8*	31*
250*	40.3*	29*
350*	49.5*	27*

\*Typical values, there are no specified values at this frequency in the specification

# Data-Grade Cables - Cat 5E+

## INSIDE CABLE CATEGORY 5E+



**DESCRIPTION:**

- 24 gauge solid bare copper conductor
- Polyethylene insulation
- Insulated conductors twisted into pairs
- PVC Jacket
- CMR or CM

**SPECIFICATIONS:**  
 NEC 800 **RoHS**  
 ANSI/EIA/TIA 568-B.2-1

**FEATURES:**

Category 5E and ETL listed, intended for horizontal installation.

Standard put-ups are 1000 foot reels, boxes or reel-in-a-box.

Product Code	Number of Pairs	Overall Diameter	Net Weight Lb/mft	Jacket Thickness	Insulation Thickness
664455A	4	0.190"	18	0.017"	0.0073"

Conductor Resistance d.c. Maximum @ 20°C	Mutual Capacitance pf/ft	Characteristic Impedance Ω 1 to 100 MHz	Delay Skew Maximum ns	Return Loss Minimal (fin MHz) dB
25 Ω/ft	14	100 ± 15	45	25 (20 ≥ f)
				25 - 5 log(f/20) (100 ≥ f ≥ 20)

Transmission Characteristics			
Frequency MHz	Maximum Attenuation dB/100 m	Minimum NEXT Loss dB/100 m	Minimum FEXT Loss dB/100 m
1	2.1	62	61
10	6.5	47	41
16	8.2	44	37
31	11.7	40	31
100	22.0	32	21
200*	32.0*	28*	18*
250*	35.0*	26*	16*
350*	40.0*	24*	11*
400*	48.5*	23*	9*

\*Typical values, there are no specified values at this frequency in the specification

## INDOOR CABLE CATEGORY 5E+ PLENUM

\*All values are nominal, and subject to manufacturing tolerances.



**DESCRIPTION:**

- 24 gauge solid bare copper conductor
- FEP insulation
- Insulated conductors twisted into pairs
- Low smoke PVC Jacket
- CMP

**SPECIFICATIONS:**  
 NEC 800 **RoHS**  
 ANSI/EIA/TIA 568-B.2-1

**FEATURES:**

Category 5E verified and ETL, intended for horizontal, riser and plenum installation.

Standard put-ups are 1000 foot reels, boxes or reel-in-a-box.

Product Code	Number of Pairs	Overall Diameter	Net Weight Lb/mft	Jacket Thickness	Insulation Thickness
664373A	4	0.195"	21	0.013"	0.0065"

Conductor Resistance d.c. Maximum @ 20°C	Mutual Capacitance pf/ft	Characteristic Impedance Ω 1 to 100 MHz	Delay Skew Maximum ns	Return Loss Minimal (fin MHz) dB
26 Ω/ft	14	100 ± 15	45	25 (20 ≥ f)
				25 - 5 log(f/20) (100 ≥ f ≥ 20)

Transmission Characteristics			
Frequency MHz	Maximum Attenuation dB/100 m	Minimum NEXT Loss dB/100 m	Minimum FEXT Loss dB/100 m
1	2.1	62	61
10	6.5	47	41
16	8.2	44	37
31	11.7	40	31
100	22.0	32	21
200*	32.0*	28*	18*
250*	35.0*	26*	16*
350*	40.0*	24*	11*
400*	48.5*	23*	9*

\*Typical values, there are no specified values at this frequency in the specification

## OUTDOOR CABLE CATEGORY 5E+ DIRECT BURY



**DESCRIPTION:**

- 24 gauge solid bare copper conductor
- Polyethylene insulation
- Insulated conductors twisted into pairs
- Flooding compound to prevent water ingress
- Polyethylene Jacket

**SPECIFICATIONS:**  
 ISO/IEC 11801 **RoHS**  
 ANSI/EIA/TIA 568-B.2-1

**FEATURES:**

Category 5E intended for structured cabling in telecommunications networks, for outdoor use in aerial, direct burial or duct installations.

Standard put-ups are 1000 foot reels, boxes or reel-in-a-box.

Product Code	Number of Pairs	Overall Diameter	Net Weight Lb/mft	Jacket Thickness
664455BURY	4	0.236"	24	0.025"

Transmission Characteristics			
Frequency MHz	Maximum Attenuation dB/100 m	Minimum NEXT Loss dB/100 m	Minimum FEXT Loss dB/100 m
1	2.1	62	61
10	6.5	47	41
16	8.2	44	37
31	11.7	40	31
100	22.0	32	21
200*	32.0*	28*	18*
250*	35.0*	26*	16*
350*	40.0*	24*	11*
400*	48.5*	23*	9*

Conductor Resistance d.c. Maximum @ 20°C	Mutual Capacitance pf/ft	Characteristic Impedance Ω	Delay Skew Maximum ns	Return Loss Minimal (fin MHz) dB
84 Ω/ft	16	100 ± 15 (1 - 100 MHz)	45	25 (20 ≥ f)
		100 ± 22 (100 - 200 MHz)		25 - 7 log(f/20) (100 ≥ f ≥ 20)

\*Typical values, there are no specified values at this frequency in the specification

\*All values are nominal, and subject to manufacturing tolerances.