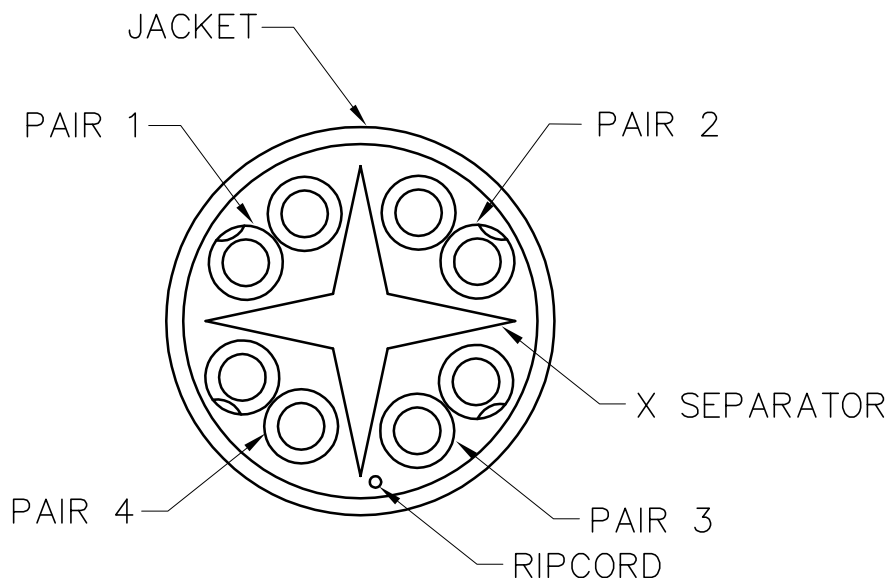


# Category 6e 600MHz UTP Solid Cable

## PRODUCT SPECIFICATION

### Package includes:

A. Category 6e UTP Solid Cable, 1000 feet



PAIR 1: BLUE & WHITE/BLUE

PAIR 2: ORANGE & WHITE/ORANGE

PAIR 3: GREEN & WHITE/GREEN

PAIR 4: BROWN & WHITE/BROWN

### Features and Benefits:

- Exceeds TIA 568-C.2-1 Category 6 standard
- Easy to dispense cable with pull box design, saving your time and energy on the job site
- Convenient sequential footage markings for usage tracking
- Riser flame retardant rated required in most commercial installations
- ETL verified TIA/EIA 568-C.2 for guaranteed performance
- UL listed

### CABLE, CAT6e, UTP, 23AWG, 4P, CMR, 1000ft

ITEM NO. ICCABR6EXX

REV. F

DWG NO. PSCABR6E00

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| CATEGORY 6e 600MHz UTP CABLE ELECTRICAL PERFORMANCE (100 METER LOOP) |      |      |      |      |      |       |      |       |       |       |       |       |       |       |       |       |       |       |
|----------------------------------------------------------------------|------|------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FREQUENCY (MHz)                                                      | 1.0  | 4.0  | 10.0 | 16.0 | 20.0 | 31.25 | 62.5 | 100.0 | 155.0 | 200.0 | 250.0 | 300.0 | 350.0 | 400.0 | 480.0 | 500.0 | 550.0 | 600.0 |
| ATTENUATION (dB/100m)                                                | 2.0  | 3.7  | 5.9  | 7.4  | 8.3  | 10.4  | 14.9 | 19.1  | 24.1  | 27.7  | 31.2  | 34.5  | 37.5  | 40.4  | 44.7  | 45.8  | 48.3  | 50.7  |
| NEXT (dB)                                                            | 82.3 | 73.3 | 67.3 | 64.2 | 62.8 | 59.9  | 55.4 | 52.3  | 49.4  | 47.8  | 46.3  | 46.0  | 45.7  | 45.4  | 44.9  | 44.8  | 44.5  | 44.2  |
| PS NEXT (dB)                                                         | 80.3 | 71.3 | 65.3 | 62.2 | 60.8 | 57.9  | 53.4 | 50.3  | 47.4  | 45.8  | 44.3  | 44.0  | 43.7  | 43.4  | 42.9  | 42.8  | 42.5  | 42.2  |
| ACRF (dB)                                                            | 73.8 | 61.8 | 53.8 | 49.7 | 47.8 | 43.9  | 37.9 | 33.9  | 30.0  | 27.8  | 25.8  | 24.3  | 22.9  | 21.8  | 20.2  | 19.8  | 19.0  | 18.2  |
| PS ACRF (dB)                                                         | 71.8 | 59.8 | 51.8 | 47.7 | 45.8 | 41.9  | 35.9 | 31.8  | 28.0  | 25.8  | 23.8  | 22.3  | 20.9  | 19.8  | 17.2  | 17.8  | 17.0  | 16.2  |
| RETURN LOSS (dB)                                                     | 21.0 | 24.0 | 25.5 | 26.0 | 26.0 | 26.0  | 26.0 | 22.5  | 21.1  | 19.8  | 19.0  | 18.3  | 17.8  | 16.9  | 16.3  | 16.2  | 15.9  | 15.7  |
| ACR (dB)                                                             | 80.3 | 69.5 | 61.4 | 56.8 | 54.5 | 49.4  | 40.0 | 33.2  | 25.3  | 20.1  | 15.1  | 11.5  | 8.2   | 5.0   | 0.2   | 0.0   | N.A.  | N.A.  |
| PS ACR (dB)                                                          | 78.3 | 67.5 | 59.4 | 54.8 | 52.5 | 47.4  | 38.4 | 31.2  | 23.3  | 18.1  | 13.1  | 9.5   | 6.2   | 3.0   | 0     | N.A.  | N.A.  | N.A.  |

### NOTES: UNLESS OTHERWISE SPECIFIED

1. STANDARD:
  - A. UL444, ISO/IEC 11801, TIA-568-C.2 CAT 6; 2002/95/EC(RoHS)
2. CONSTRUCTION:
  - A. SIZE: 23AWG
  - B. CONDUCTOR: SOLID BARE COPPER
  - C. INSULATION:
    - MATERIAL: HDPE
  - D. JACKET:
    - MATERIAL: FR PVC
    - DIAMETER:  $\varnothing 0.236" \pm 0.007$  (6.0MM $\pm$ 0.2)
  - E. RIP CORD
    - MATERIAL: POLYESTER
  - F. X SEPARATOR:
    - MATERIAL: PE
3. ELECTRICAL & PHYSICAL PROPERTIES:
  - A. RATING TEMP VOLTAGE: 75°C, 300V
  - B. CONDUCTOR RESISTANCE: 9.38 OHM/100m/20°C MAX.
  - C. MUTUAL CAPACITANCE: 56 pF/M MAX.
  - D. DIELECTRIC STRENGTH: AC 1.5 KV/2 SEC.
  - E. SPARK TEST: 2.5 KV
  - F. FLAME RETARDANT TEST: CMR
  - G. DC RESISTANCES UNBALANCE: 5% MAX
  - H. AC LEAKAGE CURRENT THROUGH OVERALL JACKET: AC 1500V  $\leq$  10mA
  - I. PAIR-TO-PAIR CAPACITANCE UNBALANCED: 330 pF/100m MAX.
  - J. CHARACTERISTIC IMPEDANCE: 1~600 MHz 100 $\pm$ 15 OHMS
  - K. PROPAGATION DELAY: 600MHz 536nS/100m MAX.
  - L. VELOCITY OF PROPAGATION (NVP): 68% NOMINAL
  - M. DELAY SKEW: 1~600MHz 40nS/100m MAX.
4. PACKAGING:
  - A. BULK PACKAGE: 1000 FT/PULL BOX
  - B. BOX SIZE: 16.30" X 10.00" X 16.00"
  - C. WEIGHT: 28.65 LBS

| PART NUMBER | DESCRIPTION                                                       |
|-------------|-------------------------------------------------------------------|
| ICCABR6EBL  | CAT6e 600MHz UTP SOLID CABLE, 23 AWG, 4 PAIR, CMR, 1000FT, BLUE   |
| ICCABR6EGN  | CAT6e 600MHz UTP SOLID CABLE, 23 AWG, 4 PAIR, CMR, 1000FT, GREEN  |
| ICCABR6EGY  | CAT6e 600MHz UTP SOLID CABLE, 23 AWG, 4 PAIR, CMR, 1000FT, GRAY   |
| ICCABR6EWH  | CAT6e 600MHz UTP SOLID CABLE, 23 AWG, 4 PAIR, CMR, 1000FT, WHITE  |
| ICCABR6EYL  | CAT6e 600MHz UTP SOLID CABLE, 23 AWG, 4 PAIR, CMR, 1000FT, YELLOW |



FILE NO. 320548

## CABLE, CAT6e, UTP, 23AWG, 4P, CMR, 1000ft

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