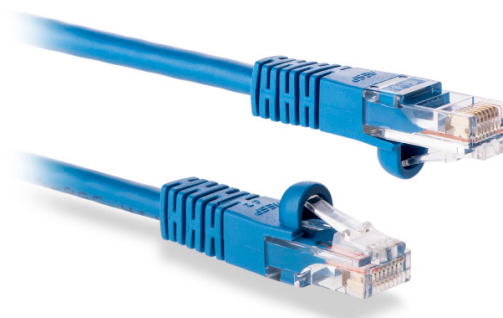


## Category 5e Unscreened Patch Cords -114 Series

### KEY FEATURES

- Supports ANSI/TIA-568-C.2 transmission performance specifications
- 100% factory transmission tested per ANSI/TIA-568-C.2 to ensure category 5e 100-meter channel performance
- ETL verified unscreened 24 AWG stranded cable
- Rated for 750 plug insertions for high level system reliability
- Enhanced plug-to-jack connection integrity
- Five standard jacket colors & Eight standard lengths



The Signamax Category 5e Unscreened Patch Cords have been designed to meet the need for today's less demanding applications. The 114-series patch cords incorporate a slim profile snag-free boot design which protects the plug latch and offers greater flexibility. The cords are 100% transmission tested and support category 5e 100-meter channel performance.

Manufactured using ETL verified 24-AWG stranded cable design to support a greater service life. Assembled in a controlled environment to ensure consistent quality, these patch cords provide reliable performance when mated with our category 5e connecting hardware and deliver supreme performance for network cabling systems.

### CATEGORY 5E UNSCREENED PATCH CORDS -114 SERIES

| PART NUMBER   | DESCRIPTION                                            |
|---------------|--------------------------------------------------------|
| C5E-114CC-LFB | Category 5e Unscreened Patch Cord with Snag-Free Boots |

Specify cable jacket color by substituting CC in P/N for the following: **BK** **BU** **GY** **WH** **YE**

Specify cable length by substituting L in P/N for the following:

**6:** 6in **1:** 1 ft **3:** 3 ft **5:** 5 ft **7:** 7 ft **10:** 10 ft **14:** 14 ft **25:** 25 ft

P/N Example: C5E-114BU-3FB - Cat 5e Unscreened Patch Cord with Snag-Free Boots, Blue, 3 ft

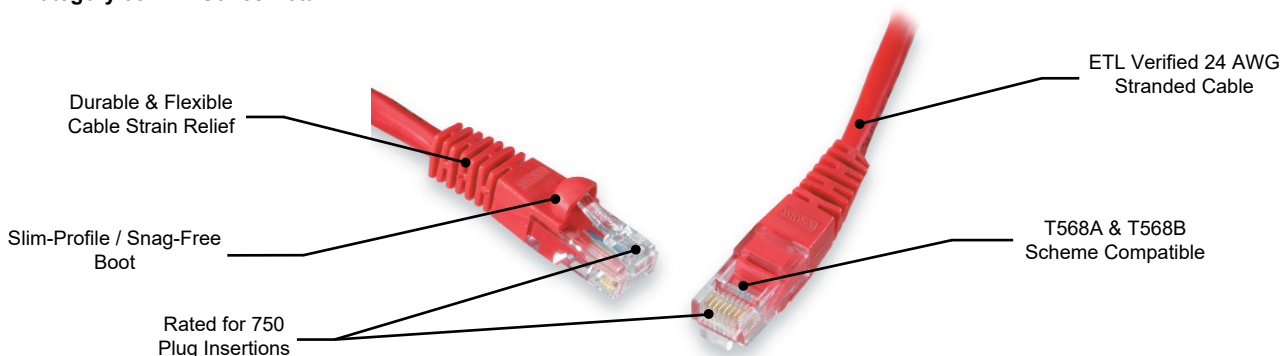
Special Order Colors: **OR** **RD** **GN** **PU**

Special Order lengths: 35ft, 50ft, and 100ft

Additional lengths not listed are custom, designated by -C

Custom and Special Order products are non-cancelable and non-returnable.

**Figure 1: Category 5e -114 Series Detail**



| FREQUENCY (MHz) | SRL (dB) | ATTENUATION (dB/100M) | ACR (dB) | NEXT (dB/100M) | PSNEXT (dB) | ELFEXT (dB/100) | PSELFEXT (dB/100M) | RL (dB) | DELAY (ns/100M) |
|-----------------|----------|-----------------------|----------|----------------|-------------|-----------------|--------------------|---------|-----------------|
| 0.772           | -        | 2.2                   | 64.8     | 67             | 64          | 66              | 63                 | 19      | 575             |
| 1               | 23       | 2.4                   | 62.9     | 65.3           | 62.3        | 63.8            | 60.8               | 20      | 570             |
| 4               | 23       | 4.9                   | 51.4     | 56.3           | 53.3        | 51.7            | 48.7               | 23      | 552             |
| 8               | 23       | 7.0                   | 44.8     | 51.8           | 48.8        | 45.7            | 42.7               | 25      | 546.7           |
| 10              | 23       | 7.8                   | 42.5     | 50.3           | 47.3        | 43.8            | 40.8               | 25      | 545             |
| 16              | 23       | 9.8                   | 37.5     | 47.3           | 44.4        | 39.7            | 36.7               | 25      | 543             |
| 20              | 23       | 11.1                  | 34.7     | 45.8           | 42.8        | 37.7            | 34.7               | 25      | 542             |
| 25              | 22       | 12.5                  | 31.8     | 44.3           | 41.3        | 35.8            | 32.8               | 24      | 541.2           |
| 31.25           | 21       | 14.0                  | 28.9     | 42.9           | 39.9        | 33.9            | 30.9               | 23      | 540.4           |
| 62.5            | 18       | 20.4                  | 16       | 36.4           | 35.4        | 27.8            | 24.6               | 21      | 538.6           |
| 100             | 16       | 26.4                  | 8.9      | 35.3           | 32.3        | 23.8            | 20.8               | 19      | 538             |
| 200             | 13       | 38.9                  | -8.1     | 30.8           | 27.8        | 17.8            | 14.8               | 16      | 537             |
| 250             | 12       | 44.2                  | -15      | 29.3           | 26.3        | 15.8            | 12.8               | 16      | 536             |
| 300             | 11.2     | 49.2                  | -21      | 28.1           | 25.1        | 14.3            | 11.3               | 15      | 536             |
| 350             | 10.6     | 53.8                  | -27      | 27.1           | 24.1        | 12.9            | 9.9                | 14      | 536             |

| PART NUMBERS   | L (FT) | TOLERANCE (IN) |
|----------------|--------|----------------|
| C5E-114CC-LFB  | 1      | ±0.5"          |
| C5E-114CC-3FB  | 3      | ±1"            |
| C5E-114CC-5FB  | 5      | ±1"            |
| C5E-114CC-7FB  | 7      | ±1"            |
| C5E-114CC-10FB | 10     | ±1.5"          |
| C5E-114CC-14FB | 14     | ±1.5"          |
| C5E-114CC-25FB | 25     | ±2"            |

## SPECIFICATIONS

### TRANSMISSION PERFORMANCE

ANSI/TIA/EIA-568-C.2: meets or exceeds category 5e (1-100 MHz) specifications

### TRANSMISSION MEDIA

4-pair stranded unscreened twisted pair (UTP)

### WIRING SCHEME

ANSI/TIA/EIA-568-C.2: T568A & T568B  
ISO/IEC 11801 2nd Ed.: 8-position conductor/pair assignment (1-2/3-6/4-5/7-8)

### CONSTRUCTION

**Assembly** : 4 pairs, 7 strands 24 AWG, UTP  
**Insulation** : High density polyethylene  
**Jacket**  
**Dimensions** : Diameter < 0.25 in (6.35 mm)  
**Material** : Flame retardant PVC compound  
**Plug Housing** : UL listed 94V-0 flame retardant polycarbonate  
**IDC Blades** : Phosphor bronze, min 50 µin of gold plating over 100 µin of nickel in contact area

### MECHANICAL

**Retention** : 50 N (11 lbf) for 60 ± 5 s  
**Mating Cycle Life** : Min 750 cycles  
**Tensile Strength** : ≥ 20 N per wire

### ELECTRICAL

**Insulation Resistance** : Min 500 MOhm @ 100 Vdc  
**Dielectric Withstanding Voltage** : 1,000 Vdc/ac peak contact-to-contact @ 60 Hz for 1 min  
**Contact Resistance** : Max 20 mOhm  
**Current Rating** : See Figure 2

### ENVIRONMENTAL CONDITIONS

**Operating Temperature** : 14 °F to 140 °F (-10 °C to 60 °C)  
**Storage Temperature** : -40 °F to 158 °F (-40 °C to 70 °C)  
**Operating RH** : 93% Max (non-condensing)

### COMPLIANCE

ANSI/TIA/EIA-568-C.2, ISO/IEC 11801 2nd Ed., FCC Part 68, UL 1863, UL94V-0

### APPLICATIONS

X.21, V.11, S0, ISDN, CSMA/CD 10BASE-T, 100BASE-TX, 100BASE-T4, 100BASE-T2, 1000BASE-T, TR 4/16/100, 100BASE-VG, ATM LAN 25/51/155, TTPMD

### WARRANTY

5 - Year Limited Component

Figure 2 : Current Rating

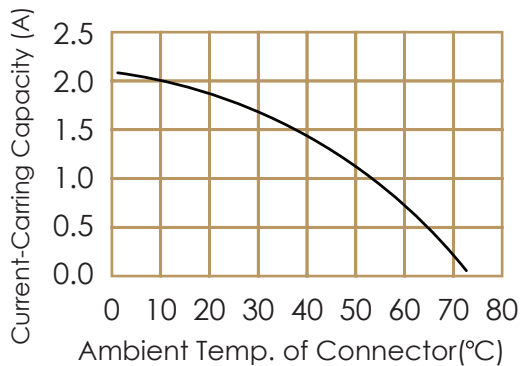


Figure 3 : Cable Structure

