

# Category 3 Non-Plenum

## Product Construction

### Conductors:

- 24 AWG solid bare annealed copper

### Insulation:

- Flame-retardant semi-rigid PVC

### Color Code:

- See Color Code Chart on page 90

### Rip Cord:

- Applied longitudinally under jacket

### Jacket:

- Flame-retardant PVC
- Sequential footage markings

## Packaging

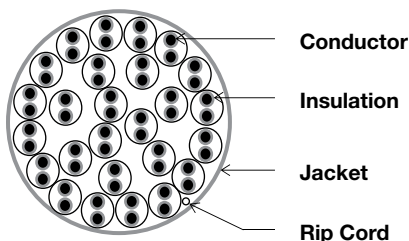
- 1000' Pull-Pac® (PP)
- 1000' Spool-Pac® (SPC)
- 1000' spool (SP)
- 1000' reel (RL)
- Per order length (POL)

## Applications

- 100 VG-AnyLAN
- 52 Mbps ATM
- 4 Mbps Token Ring (IEEE 802.5)
- 10 BASE-T (IEEE 802.3)
- T1
- Voice

## Compliances

- ANSI/TIA/EIA 568 C.2
- ANSI/ICEA S-90-661 (Category 3)
- NEC/CEC Type CMR
- RoHS Compliant Directive 2002/95/EC
- UL 144 for riser



## Physical Data

|                         | CMR (Non-Plenum) |
|-------------------------|------------------|
| Temperature Rating (°C) |                  |
| Installation:           | 0 to +60         |
| Operation:              | -10 to +60       |



| PRODUCT NUMBER | PAIRS | JACKET COLOR | PKG. | O.D. (INCHES) | WEIGHT (LBS/KFT) |
|----------------|-------|--------------|------|---------------|------------------|
| 2133008        | 2     | Beige        | PP   | 0.14          | 9                |
| 2133009        | 2     | Gray         | PP   | 0.14          | 9                |
| 2133011        | 2     | Gray         | SP   | 0.14          | 9                |
| 2133012        | 3     | Beige        | PP   | 0.15          | 13               |
| 2133013        | 3     | Gray         | PP   | 0.15          | 13               |
| 2133015        | 3     | Gray         | SP   | 0.15          | 13               |
| 2133016        | 4     | Beige        | PP   | 0.17          | 16               |
| 2133017        | 4     | Gray         | PP   | 0.17          | 16               |
| 2133359        | 4     | White        | SPC  | 0.17          | 16               |
| 2133358        | 4     | Gray         | SPC  | 0.17          | 16               |
| 2133018        | 4     | Beige        | SP   | 0.17          | 16               |
| 2133019        | 4     | Gray         | SP   | 0.17          | 16               |
| 2133275        | 4     | Blue         | PP   | 0.17          | 16               |
| 2133296        | 4     | White        | PP   | 0.17          | 16               |
| 2133020        | 6     | Beige        | PP   | 0.21          | 23               |
| 2133021        | 6     | Gray         | PP   | 0.21          | 23               |
| 2133022        | 6     | Beige        | SP   | 0.21          | 23               |
| 2133023        | 6     | Gray         | SP   | 0.21          | 23               |
| 2133026        | 12    | Beige        | RL   | 0.27          | 47               |
| 2133027        | 12    | Gray         | RL   | 0.27          | 47               |
| 2133033        | 25    | Gray         | RL   | 0.42          | 105              |
| 2133033.99     | 25    | Gray         | POL  | 0.42          | 105              |
| 2133161        | 50    | Gray         | RL   | 0.56          | 185              |
| 2133161.99     | 50    | Gray         | POL  | 0.56          | 185              |
| 2133144        | 100   | Gray         | RL   | 0.74          | 375              |
| 2133144.99     | 100   | Gray         | POL  | 0.74          | 375              |
| 2133323        | 200   | Gray         | RL   | 1.02          | 724              |
| 2133323.99     | 200   | Gray         | POL  | 1.02          | 724              |
| 2133373.99     | 300   | Gray         | POL  | 1.23          | 1077             |

Data subject to change without notice.

Note: Non-stock items may be subject to minimum order quantities.

## Electrical Characteristics

|                                                             | 24 AWG           | Frequency | Insertion Loss<br>dB/100 m (max) | Power Sum<br>Near-End Crosstalk<br>dB (min) |
|-------------------------------------------------------------|------------------|-----------|----------------------------------|---------------------------------------------|
| DC Resistance (max)<br>Ohms/100 m (328 ft) @ 20°C           | 9.38             | 772 kHz   | 2.2                              | 43                                          |
| Mutual Capacitance (nom)<br>pF/ft @ 1 kHz                   | 18               | 1 MHz     | 2.6                              | 41                                          |
| Characteristic Impedance<br>Frequency (f): 1.0-16.0 MHz     | Ohms<br>100 ± 15 | 4 MHz     | 5.6                              | 32                                          |
| Structural Return Loss (SRL)<br>Frequency (f): 1.0-10.0 MHz | dB (min)<br>12   | 8 MHz     | 8.5                              | 27                                          |
|                                                             | 10.0-16.0 MHz    | 10 MHz    | 9.7                              | 26                                          |
|                                                             | 12-10 log (f/10) | 16 MHz    | 13.1                             | 23                                          |

# Category 3 Screened



## CMP (Plenum)

| PRODUCT NUMBER | PAIRS | O.D. (INCHES) | WEIGHT (LBS/KFT) |
|----------------|-------|---------------|------------------|
| 2131537        | 2     | 0.13          | 14               |
| 2131216        | 3     | 0.15          | 18               |
| 2131217        | 4     | 0.20          | 23               |
| 2131218        | 6     | 0.26          | 32               |



## CMR (Non-Plenum)

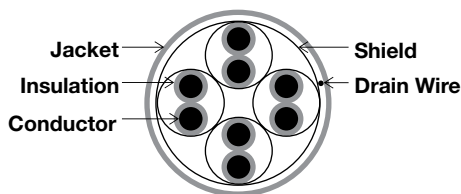
| PRODUCT NUMBER | PAIRS | O.D. (INCHES) | WEIGHT (LBS/KFT) |
|----------------|-------|---------------|------------------|
| 2133175        | 2     | 0.19          | 18               |
| 2133176        | 3     | 0.22          | 23               |
| 2133177        | 4     | 0.23          | 28               |

Data subject to change without notice.

## Electrical Characteristics

|                                                                                     | 24 AWG                             |
|-------------------------------------------------------------------------------------|------------------------------------|
| <b>DC Resistance</b> (max)<br>Ohms/100 m (328 ft) @ 20°C                            | 9.38                               |
| <b>Mutual Capacitance</b> (nom)<br>PF/ft @ 1 kHz                                    | 18                                 |
| <b>Characteristic Impedance</b><br>Frequency (f): 1.0-16.0 MHz                      | Ohms<br>100 ± 15                   |
| <b>Structural Return Loss (SRL)</b><br>Frequency (f): 1.0-10.0 MHz<br>10.0-16.0 MHz | dB (min)<br>12<br>12-10 log (f/10) |

| Frequency | Insertion Loss<br>dB/100 m (max) | Power Sum<br>Near-End Crosstalk<br>dB (min) |
|-----------|----------------------------------|---------------------------------------------|
| 772 kHz   | 2.2                              | 43                                          |
| 1 MHz     | 2.6                              | 41                                          |
| 4 MHz     | 5.6                              | 32                                          |
| 8 MHz     | 8.5                              | 27                                          |
| 10 MHz    | 9.7                              | 26                                          |
| 16 MHz    | 13.1                             | 23                                          |



## Physical Data

|                         | CMR (Non-Plenum) | CMP (Plenum) |
|-------------------------|------------------|--------------|
| Temperature Rating (°C) |                  |              |
| Installation:           | 0 to +60         | 0 to +75     |
| Operation:              | -10 to +60       | -10 to +75   |

## Product Construction

### Conductors:

- 24 AWG solid bare annealed copper

### Insulation:

- Plenum: Fluoropolymer
- Non-Plenum: Flame-retardant semi-rigid PVC

### Color Code:

- Pair 1: Blue-White/Blue
- Pair 2: Orange-White/Orange
- Pair 3: Green-White/Green
- Pair 4: Brown-White/Brown
- Pair 5: Slate-White/Slate
- Pair 6: Blue-Red/Blue

### Rip Cord:

- Plenum: None
- Non-Plenum: Applied longitudinally under jacket

### Drain Wire:

- 24 AWG solid tinned copper

### Shield:

- Polyester-backed aluminum foil

### Jacket:

- Plenum: Natural Flexguard® flame-retardant PVC (2pr) tough low-friction PVDF fluoropolymer (3-6 pair)
- Non-Plenum: Gray flame-retardant PVC
- Sequential footage markings

## Packaging

- 1000' spool (SP)

## Applications

- 100 BASE VG-AnyLAN
- 52 Mbps ATM
- 4 Mbps Token Ring (IEEE 802.5)
- 10 BASE-T (IEEE 802.3)
- T1
- Voice

## Compliances

- ANSI/TIA/EIA 568 C.2
- ANSI/ICEA S-90-661 (Category 3)
- Plenum: NEC/CEC Type CMP
- Non-Plenum: NEC/CEC Type CMR

