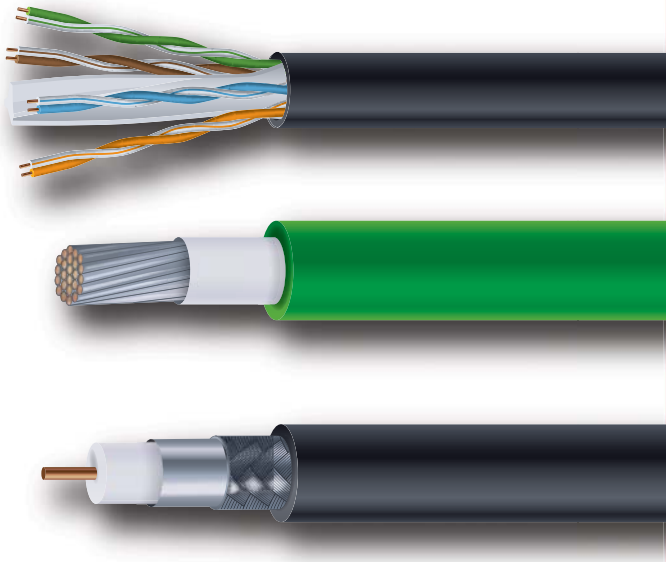
PRIORITY
WIRE & CABLE, INC.

# Communication Cables

- Category Cable
- Central Office Power Cable
- Coax Cable
- Fiber Cable
- Ground Rods
- Guy Wire



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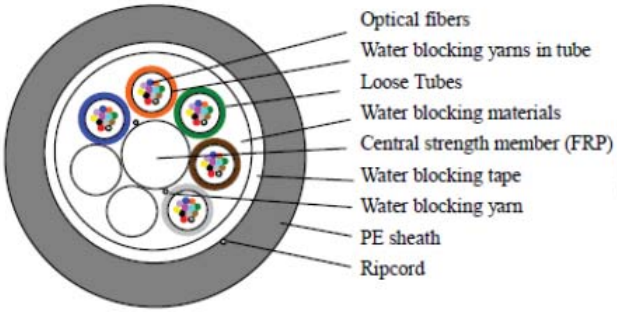
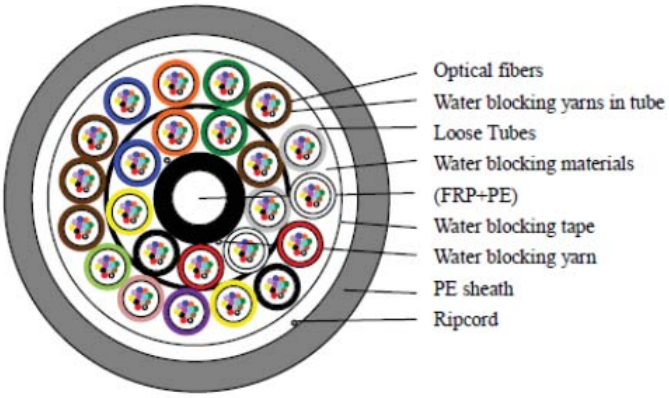
# PGYFY – All Dry Cable




## Cable Description

Loose tubes with water blocking yarn assembled around dielectric central strength member; bind with polyester yarns and covered with water blocking tape; PE outer jacket overall

## Cable Standards

Meeting requirements of standards GR-20-Core, ICEA S-87-640, IEC 60793, IEC 60794

## Cable Construction

| Item | Contents | Unit | Value | | | | |
|---|---|---|---|---|---|---|---|
| Fiber count | Number | / | 12/24/36/48 | 72 | 96 | 144 | 288 |
| Cable structure | / | / | 1+6 | 1+6 | 1+8 | 1+12 | 10+14 |
| Fiber No. per tube | Number | / | 12 | 12 | 12 | 12 | 12 |
| Loose tube | Number | / | 1/2/3/4 | 6 | 8 | 12 | 24 |
| Central strength member | Material | / | Dielectric | | | | |
| Cable diameter | ±5% | in | 0.472 | 0.472 | 0.504 | 0.622 | 0.736 |
| Cable weight | ±10% | lb/kft | 74 | 71 | 79 | 118 | 190 |

**Part Number**: *-PGYFY-LT-SMF
Note: Substitute * for fiber count of 12, 24, 36, 48, 72, 96, 144, or 288

## Technical Data

| Item | | Nominal Results |
|---|---|---|
| Tension for a Short time | | 2700N |
| Tension for a long time | | 800N |
| Short term lateral pressure | | 1000 N/100mm |
| Long term lateral pressure | | 300 N/100mm |
| Jacket dielectric resistance (immersion for 24 hours) | | ≥2000 MΩ.km |
| Jacket DC voltage withstand (immersion for 24 hours, no breakdown) | | 15KV for 2 min |
| Minimum Bending Radius(Installing) | | 25D |
| Minimum Bending Radius(Operating) | | 12.5D |
| Temperature | Installation | -10°C ~ +60°C |
| | Transportation and Operation | -40°C ~ +70°C |

All values are nominal and subject to correction



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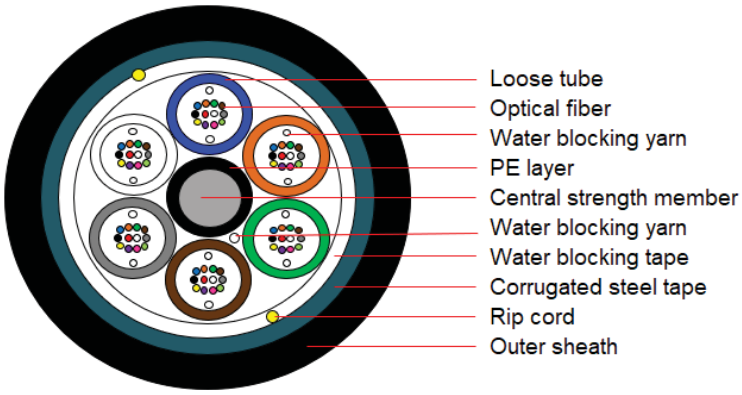
# Single Jacket, Single Armored PGYS – All Dry Cable




## Cable Description

Loose tubes with water blocking yarn assembled around metallic central strength member; bind with polyester yarns and covered with water blocking tape; steel corrugated armor applied over the core and a PE jacket overall.

## Cable Standards

Meeting requirements of standards GR-20-Core, ICEA S-87-640, IEC 60793, IEC 60794

## Cable Construction

| Item | Contents | Unit | Value | | | | | |
|---|---|---|---|---|---|---|---|---|
| Fiber count | Number | / | 12/24/48 | 72 | 96 | 144 | 192 | 196 |
| Cable structure | / | / | 1+6 | 1+6 | 1+8 | 1+12 | 1+6+12 | 1+6+12 |
| Fiber No. per tube | Number | / | 12 | 12 | 12 | 12 | 12 | 12/16+4/1 |
| Loose tube | Number | / | 1/2/4 | 6 | 8 | 12 | 16 | 17 |
| Central strength member | Material | / | Steel wire with cushion | | | | | |
| Outer jacket | Nominal thickness | in | 0.067 | 0.067 | 0.067 | 0.067 | 0.067 | 0.067 |
| Cable diameter | ±5% | in | 0.484 | 0.484 | 0.547 | 0.673 | 0.673 | 0.673 |
| Cable weight | ±10% | lb/kft | 95 | 96 | 120 | 167 | 157 | 157 |

**Part Number**: *-PGYS-LT-SMF
Note: Substitute * for fiber count of 12, 24, 36, 48, 72, 96, 144, 192, or 196

## Mechanical & Environmental Performance

| Item | Contents | Value |
|---|---|---|
| Max. tensile load | Short term | 2700 N |
| | Long term | 800 N |
| Max. crush resistance | Short term | 4400 N/100mm |
| Min. bending radius | Installation | 20 x cable diameter |
| | Operation | 10 x cable diameter |
| Temperature range | Operation | -40ºC ~ +70ºC |
| | Installation | -30ºC ~ +70ºC |
| | Storage/transportation | -40ºC ~ +75ºC |

All values are nominal and subject to correction



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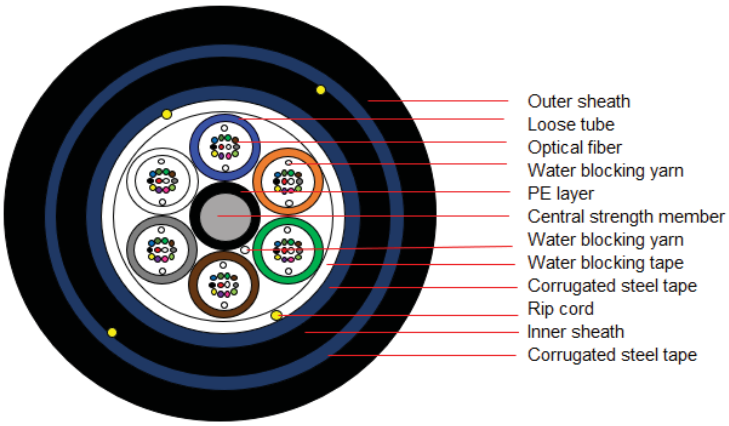
# Double Jacket, Double Armored
# PGYS53 – All Dry Cable




## Cable Description

Loose tube with water blocking yarn assembled around metallic central strength member; bind with polyester yarns and covered with water blocking tape; corrugated steel armor applied over the core, inner PE jacket, 2nd corrugated steel armor over the inner jacket, and outer PE jacket overall.

## Cable Standards

Meeting requirements of standards GR-20-Core, ICEA S-87-640, IEC 60793, IEC 60794

## Cable Construction

| Item | Contents | Unit | Value | | |
|---|---|---|---|---|---|
| Fiber count | Number | / | 12/24/36/48/72 | 96 | 144 |
| Cable structure | / | / | 1+6 | 1+8 | 1+12 |
| Fiber No. per tube | Number | / | 12 | 12 | 12 |
| Loose tube | Number | / | 1/2/3/4/6 | 8 | 12 |
| Central strength member | Material | / | Steel wire with cushion | | |
| Outer jacket | Nominal thickness | in | 0.067 | 0.067 | 0.067 |
| Cable diameter | ±5% | in | 0.591 | 0.654 | 0.776 |
| Cable weight | ±10% | lb/kft | 155 | 187 | 251 |

**Part Number**: *-PGYS53-LT-SMF
Note: Substitute * for fiber count of 12, 24, 36, 48, 72, 96, or 144

## Mechanical & Environmental Performance

| Item | Contents | Value |
|---|---|---|
| Max. tensile load | Short term | 2700 N |
| | Long term | 800 N |
| Max. crush resistance | Short term | 4400 N/100mm |
| Min. bending radius | Installation | 20 x cable diameter |
| | Operation | 10 x cable diameter |
| Temperature range | Operation | -40°C ~ +70°C |
| | Installation | -30°C ~ +70°C |
| | Storage/transportation | -40°C ~ +75°C |

All values are nominal and subject to correction



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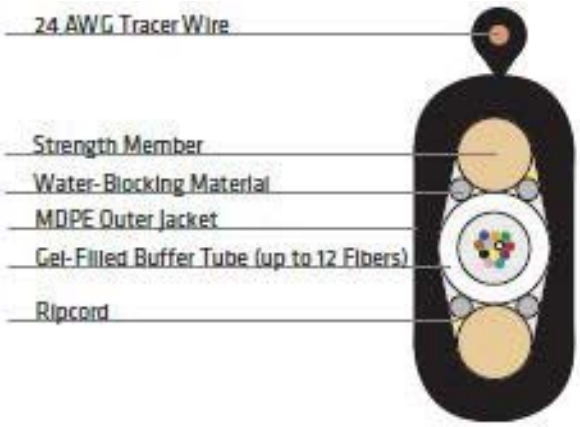
# Toneable Flat Drop
# PGYFBXTC8Y – Gel Filled Cable




## Cable Description

Central tube construction, gel filled with two FRP strength members and PE outer jacket. A 24AWG tracer wire is extruded to the side of the cable.

## Cable Standards

Meeting requirements of standards GR-20-Core, ICEA S-110-717, IEC 60793, IEC 60794

## Cable Construction

| Item | Contents | Unit | Value |
|---|---|---|---|
| Fiber count | Number | / | 2~12 |
| Cable structure | / | / | Flat Type |
| Central tube | Material | | PBT |
| Outer jacket | Material | / | PE |
| Cable diameter (Height x Width) | ±0.02 | in | 0.197 x 0.461 |
| Cable weight | ±10% | lb/kft | 38 |

**Part Number**: *-PGYFBXTC8Y-FLAT DROP-T
Note: Substitute * for fiber count of 2 to 12

## Mechanical & Environmental Performance

| Item | Contents | Value |
|---|---|---|
| Max. tensile load | / | 1336N |
| Max. crush resistance | Short term | 1000N/100mm |
| | Long term | 300N/100mm |
| Min. bending radius | Installation | 250mm |
| | Operation | 180mm |
| Temperature range | Operation | -40°C ~ +70°C |
| | Installation | -10°C ~ +60°C |
| | Storage/transportation | -40°C ~ +70°C |

All values are nominal and subject to correction



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# Standard Fiber and Tube Colors:

| No. of loose tube | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Color code of loose tube | Blue | Orange | Green | Brown | Grey | White | Red | Black | Yellow | Violet | Pink | Aqua | Blue | Orange | Green |
| 12 | 12 | Filler | Filler | Filler | Filler | Filler | Filler | \ | | | | | | | |
| 24 | 12 | 12 | Filler | Filler | Filler | Filler | Filler | \ | | | | | | | |
| 36 | 12 | 12 | 12 | Filler | Filler | Filler | Filler | \ | | | | | | | |
| 48 | 12 | 12 | 12 | 12 | Filler | Filler | Filler | \ | | | | | | | |
| 60 | 12 | 12 | 12 | 12 | 12 | Filler | Filler | \ | | | | | | | |
| 72 | 12 | 12 | 12 | 12 | 12 | 12 | Filler | \ | | | | | | | |
| 96 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | \ | | | | | | |
| 144 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | \ | | |
| 288 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | \ | | | | | |
| | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| The color code of fibers within each tube: blue, orange, green, brown, Grey, white, red, black, yellow, violet, pink and aqua. | | | | | | | | | | | | | | | |
| The color code shall be selected in sequence according to the fiber counts. | | | | | | | | | | | | | | | |

# Standard Optical Fiber Characteristics:

| Item | Contents | Value |
|---|---|---|
| **G.652D Optical characteristics** | | |
| Attenuation | @1310nm | ≤0.35dB/km |
| | @1550nm | ≤0.21dB/km |
| Dispersion | @1288nm~1339nm | ≤3.5ps/(nm·km) |
| | @1550nm | ≤18ps/(nm·km) |
| Zero-Dispersion wavelength | | 1300nm~1324nm |
| Zero-Dispersion slope | | ≤0.092ps/($nm^2$·km) |
| Mode field diameter (MFD) | @1310nm | 9.2±0.4μm |
| | @1550nm | 10.4±0.5μm |
| Cable cutoff wavelength λcc(nm) | | ≤1260nm |
| Micro bending Attenuation | @1550nm (100turns;Φ60mm) | ≤0.05dB |
| Link polarization dispersion ($PMD_Q$) | | ≤0.1ps/$km^{1/2}$ |

All values are nominal and subject to correction



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# Galvanized Steel Guy Strand

## APPLICATION:

Guy wire is used to add stability to a free-standing structure or tower.

## STANDARDS:

- Manufactured and inspected per ASTM A475 and BS-183
- RUS Approved

## PACKAGING:

- 250' and 500' Coils with 18" ID
- 2,500' and 5,000' Reels
- Bulk cut to length

| Part Number* | CONSTRUCTION | | | | MINIMUM BREAKING STRENGTH | | | | COATING | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Strand Diameter | Coated Diameter | No. of Strands | Approx. Weight | Utilities Grade | Siemens-Martin Grade | High Strength Grade | Extra High Strength Grade | Zinc Coating | Min. Coating Weight Class A |
| | inches | inches | | lbs/kft | lbs | lbs | lbs | lbs | | oz/sq.ft. |
| 1/4-7STR | 1/4 | 0.080 | 7 | 121 | - | 3,150 | 4,750 | 6,650 | 100% | 0.60 |
| 5/16-7STR | 5/16 | 0.104 | 7 | 205 | - | 5,350 | 8,000 | 11,200 | 100% | 0.80 |
| 3/8-7STR | 3/8 | 0.120 | 7 | 273 | 11,500 | 6,950 | 10,800 | 15,400 | 100% | 0.85 |
| 7/16-7STR | 7/16 | 0.145 | 7 | 399 | 18,000 | 9,350 | 14,500 | 20,800 | 100% | 0.90 |
| 1/2-7STR | 1/2 | 0.165 | 7 | 517 | 25,000 | 12,100 | 18,800 | 26,900 | 100% | 0.90 |
| 9/16-7STR | 9/16 | 0.188 | 7 | 671 | - | 15,700 | 24,500 | 35,000 | 100% | 1.00 |

*All values are nominal and subject to correction.*
**Root part number is listed. Let us know at time of order entry which strength you need and we will complete the part number.*



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# Category 5E PVC
## Data Communication Cable

### APPLICATION:

Category 5E PVC Data Communication Cable is suitable to be used as structured cabling for voice and high speed data in commercial and residential building for voice, video and LAN data lines. The cable is suitable for use up to 350MHz and is rated CMR. Note CM rated cable is available upon request.

### CONDUCTORS:

- Solid soft drawn bare copper per ASTM B3

### INSULATION:

- High density polyethylene (HDPE)

### CABLING:

- 4 twisted pairs cabled together, each pair with different lays to minimize cross-talk interferences

### JACKET:

- Polyvinyl chloride (PVC)

### STANDARDS:

- UL Listed or ETL verified
- Type CMR. Per NEC Article 800
- 1000Mbps
- TPDDI 155
- ATM IEE 802.3
- IEE 802.5 ISD Voice
- TIA / EIA-568
- ISO/IEC-11801

| CAT5E (UTP) CMR 24 AWG 4 Pairs | | | | | |
|---|---|---|---|---|---|
| Part Number | Nominal Overall Diameter | Approx. Weight | Mutual Capacitance | DC Resistance Max | Nominal Velocity of Propagation |
| | inches | lbs/kft | Nf/100m | Ω/100m | % |
| TEL24-4PC5E350PVC | 0.187 | 22 | 4.4 | 9.38 | 72 |

| Performance | | | | | | |
|---|---|---|---|---|---|---|
| Frequency | ACR, min. | Characteristic Impedance | SRL | Attenuation @20°C, max. | Worst Pr Next, min. | PS-Next, min. |
| MHz | dB/100m | Ω/100m | dB/100m | dB/100m | dB/100m | dB/100m |
| 1.0 | 66 | 100 ± 15% | 23.0 | 2.0 | 68 | 63 |
| 4.0 | 55 | 100 ± 15% | 23.0 | 4.1 | 59 | 54 |
| 10.0 | 47 | 100 ± 15% | 23.0 | 6.5 | 53 | 47 |
| 16.0 | 42 | 100 ± 15% | 23.0 | 8.2 | 50 | 45 |
| 20.0 | 40 | 100 ± 15% | 23.0 | 9.3 | 48 | 43 |
| 31.3 | 35 | 100 ± 15% | 21.9 | 11.7 | 45 | 40 |
| 62.5 | 25 | 100 ± 15% | 20.2 | 17.0 | 41 | 36 |
| 100.0 | 18 | 100 ± 15% | 19.1 | 22.0 | 38 | 33 |
| 155.0 | 10 | 100 ± 15% | 18.0 | 28.1 | 35 | 30 |
| 200.0 | - | 100 ± 15% | 17.4 | 32.4 | 33 | 27 |
| 300.0 | - | 100 ± 15% | 16.4 | 41.0 | 31 | 26 |
| 500.0 | - | 100 ± 15% | 16.0 | 44.9 | 30 | 25 |

All values are nominal and subject to correction



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# Category 5E Shielded PVC
## Data Communication Cable

### APPLICATION:
Category 5E PVC Data Communication Cable is suitable to be used as structured cabling for voice and high speed data in commercial and residential building for voice, video and LAN data lines. The cable is suitable for use up to 350MHz and is rated CMR.

### CONDUCTORS:
- Solid soft drawn bare copper per ASTM B3

### INSULATION:
- High density polyethylene (HDPE)

### CABLING:
- 4 twisted pairs cabled together, each pair with different lays to minimize cross-talk interferences

### SHIELD:
- Aluminum polyester backed shielding tape with a tinned copper drain wire

### JACKET:
- Polyvinyl chloride (PVC)

### STANDARDS:
- UL listed or ETL verified Type CMR
- NEC Article 800
- 1000Mbps
- TPDDI 155
- ATM IEEE 802.3
- IEEE 802.5 ISD Voice
- TIA/EIA-568
- ISO/IEC-11801

| CAT5E (UTP) CMX CMR 24AWG 4 Pairs | | | | |
|---|---|---|---|---|
| Part Number | Min Average Thickness | | Nominal Overall Diameter | Approx. Weight |
| | Diameter | Diameter | | |
| | inches | inches | inches | lbs/kft |
| TEL24-4PC5PVCSH-POB | 0.009 | 0.025 | 0.24 | 34 |

| Performance | | | | | | |
|---|---|---|---|---|---|---|
| Frequency | ACR, min. | Characteristic Impedance | SRL | Attenuation @20°C, max. | Worst Pr Next, min. | PS-Next, min. |
| MHz | dB/100m | Ω/100m | dB/100m | dB/100m | dB/100m | dB/100m |
| 1.0 | 65 | 100 ± 15% | 20.0 | 2.0 | 65 | 62 |
| 4.0 | 63 | 100 ± 15% | 23.0 | 4.1 | 56 | 53 |
| 8.0 | 52 | 100 ± 15% | 24.5 | 5.8 | 52 | 49 |
| 10.0 | 46 | 100 ± 15% | 25.0 | 6.5 | 50 | 47 |
| 16.0 | 44 | 100 ± 15% | 25.0 | 8.3 | 47 | 44 |
| 20.0 | 37 | 100 ± 15% | 25.0 | 9.3 | 46 | 43 |
| 25.0 | 34 | 100 ± 15% | 24.3 | 10.4 | 44 | 41 |
| 31.3 | 31 | 100 ± 15% | 23.6 | 11.7 | 43 | 40 |
| 62.5 | 21 | 100 ± 15% | 21.5 | 17.0 | 38 | 28 |
| 100.0 | 13 | 100 ± 15% | 20.1 | 22.0 | 35 | 24 |

All values are nominal and subject to correction



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# Category 5E Direct Burial Shielded
## Data Communication Cable

### APPLICATION:

Category 5E Data Communication Cable is suitable to be used as structured cabling for voice and high speed data in commercial and residential building for voice, video and LAN data lines. The cable is suitable for use up to 350MHz. Rated for Direct Burial.

### CONDUCTORS:

- Solid bare copper

### INSULATION:

- High density polyethylene (HDPE)

### CABLING:

- 4 twisted pairs cabled together, each pair with different lays to minimize cross-talk interferences

### SHIELD:

- Aluminum foil with a tinned copper drain wire

### JACKET:

- LDPE

### STANDARDS:

- NEMA WC63.1
- ANSI/ICEA S-90-661
- TIA/EIA-568
- ISO/IEC-11801

| CAT5E 24AWG 4 Pairs | | |
|---|---|---|
| Part Number | Nominal Overall Diameter | Approx. Weight |
| | inches | lbs/kft |
| TEL24-4PC5EDB-SHLD | 0.24 | 34 |

| Performance | | | | | | |
|---|---|---|---|---|---|---|
| Frequency | ATT | NEXT | PS-NEXT | ELFEX | PS-ELFEXT | Return Loss dB |
| MHz | dB/100m | dB/100m | dB/100m | dB/100m | dB/100m | minimum |
| 1.0 | 3.3 | 65.3 | 62.3 | 64.0 | 61.0 | 20.0 |
| 4.0 | 6.4 | 56.3 | 53.3 | 52.0 | 49.0 | 23.0 |
| 8.0 | 8.7 | 51.8 | 48.8 | 45.9 | 42.9 | 24.5 |
| 10.0 | 9.6 | 50.3 | 47.3 | 44.0 | 41.0 | 25.0 |
| 16.0 | 12.3 | 47.2 | 44.4 | 39.9 | 36.9 | 25.0 |
| 20.0 | 13.6 | 45.8 | 42.8 | 38.0 | 35.0 | 25.0 |
| 25.0 | 15.2 | 44.3 | 41.3 | 35.8 | 33.0 | 24.3 |
| 31.3 | 17.1 | 42.9 | 39.9 | 34.1 | 31.1 | 23.6 |
| 62.5 | 24.8 | 38.4 | 35.4 | 28.1 | 25.1 | 21.5 |
| 100.0 | 32.0 | 35.3 | 32.3 | 24.0 | 21.0 | 20.1 |

All values are nominal and subject to correction



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# Category 5E Plenum
## Data Communication Cable

### APPLICATION:

Category 5E Plenum Data Communication Cable is suitable to be used as structured cabling for voice and high speed in commercial and residential building for voice, video and LAN data lines, when they are installed in air return ducts or when limiting the transmission of smoke is required. The cable is rated for use at 350MHz and is rated CMP.

### CONDUCTORS:

- Solid soft drawn bare copper per ASTM B3

### INSULATION:

- Low smoke plenum rated insulation

### CABLING:

- 4 twisted pairs cabled together, each pair with different lays to minimize cross-talk interferences

### JACKET:

- Low smoke plenum rated jacket

### STANDARDS:

- UL listed or ETL verified Type CMP
- NEC Article 800, NFPA 262
- 1000Mbps
- TPDDI 155
- ATM IEEE 802.3
- IEEE 802.5 ISD Voice
- TIA/EIA-568
- ISO/IEC-11801

| CAT5E (UTP) CMP Plenum 24 AWG 4 Pairs | | | | | |
|---|---|---|---|---|---|
| Part Number | Nominal Overall Diameter | Approx. Weight | Mutual Capacitance | DC Resistance Max | Nominal Velocity of Propagation |
| | inches | lbs/kft | Nf/100m | Ω/100m | % |
| TEL24-4PC5E350PLE | 0.187 | 20 | 4.4 | 9.38 | 72 |

| Performance | | | | | | |
|---|---|---|---|---|---|---|
| Frequency | ACR, min. | Characteristic Impedance | SRL | Attenuation @20°C, max. | Worst Pr Next, min. | PS-Next, min. |
| MHz | dB/100m | Ω/100m | dB/100m | dB/100m | dB/100m | dB/100m |
| 1.0 | 66 | 100 ± 15% | 23.0 | 2.0 | 68 | 63 |
| 4.0 | 55 | 100 ± 15% | 23.0 | 4.1 | 59 | 54 |
| 10.0 | 47 | 100 ± 15% | 23.0 | 6.5 | 53 | 47 |
| 16.0 | 42 | 100 ± 15% | 23.0 | 8.2 | 50 | 45 |
| 20.0 | 40 | 100 ± 15% | 23.0 | 9.3 | 48 | 43 |
| 31.3 | 35 | 100 ± 15% | 21.9 | 11.7 | 45 | 40 |
| 62.5 | 25 | 100 ± 15% | 20.2 | 17.0 | 41 | 36 |
| 100.0 | 18 | 100 ± 15% | 19.1 | 22.0 | 38 | 33 |
| 155.0 | 10 | 100 ± 15% | 18.0 | 28.1 | 35 | 30 |
| 200.0 | - | 100 ± 15% | 17.4 | 32.4 | 33 | 27 |
| 300.0 | - | 100 ± 15% | 16.4 | 41.0 | 31 | 26 |
| 500.0 | - | 100 ± 15% | 16.0 | 44.9 | 30 | 25 |

All values are nominal and subject to correction



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# Category 6 PVC
## Data Communication Cable

### APPLICATION:

Category 6 PVC Data Communication Cable is suitable to be used as structured cabling for voice and high speed data in commercial and residential building for voice, video and LAN data lines. The cable is rated for use at 550MHz and is rated CMR.

### CONDUCTORS:

- Solid soft drawn bare copper per ASTM B3

### INSULATION:

- High density polyethylene (HDPE)

### CABLING:

- 4 twisted pairs are cabled together and each pair is twisted in different lays to minimize cross-talk interferences. The pairs are separated from each other by an X divider

### JACKET:

- Polyvinyl chloride (PVC)

### STANDARDS:

- UL listed or ETL verified Type CMR
- UL 444, 1666
- NEC Article 800
- TIA/EIA-568
- ISO/IEC-11801

| CAT6 (UTP) CMR 24 AWG 4 Pairs | | | |
|---|---|---|---|
| Part Number | Type | Nominal Overall Diameter | Approx. Weight |
| | | inches | lbs/kft |
| TEL24-4PC6-PVC | CMR | 0.220 | 24 |

| Performance | | | | | |
|---|---|---|---|---|---|
| Frequency | ACR, min. | Characteristic Impedance | Attenuation @20°C, max. | Worst Pr Next, min. | PS-Next, min. |
| MHz | dB/100m | Ω/100m | dB/100m | dB/100m | dB/100m |
| 1.0 | 72.3 | 100 ± 15% | 2.0 | 74.3 | 72.3 |
| 4.0 | 61.5 | 100 ± 15% | 3.8 | 65.3 | 63.3 |
| 10.0 | 53.3 | 100 ± 15% | 6.0 | 59.3 | 57.3 |
| 16.0 | 48.6 | 100 ± 15% | 7.6 | 56.2 | 54.2 |
| 20.0 | 46.3 | 100 ± 15% | 8.5 | 54.8 | 52.8 |
| 25.0 | 43.8 | 100 ± 15% | 9.5 | 53.3 | 51.3 |
| 31.3 | 41.2 | 100 ± 15% | 10.7 | 51.9 | 49.9 |
| 62.5 | 32.0 | 100 ± 15% | 15.4 | 47.4 | 45.4 |
| 100.0 | 24.5 | 100 ± 15% | 19.8 | 44.3 | 42.3 |
| 200.0 | 10.8 | 100 ± 15% | 29.0 | 39.8 | 37.8 |
| 250.0 | 5.5 | 100 ± 15% | 32.8 | 38.3 | 36.3 |

All values are nominal and subject to correction



1-800-945-5542
www.PriorityWire.com

# Category 6 Shielded PVC
## Data Communication Cable

### APPLICATION:

Category 6 Shielded PVC Data Communication Cable is suitable to be used as structured cabling for voice and high speed data in commercial and residential building for voice, video and LAN data lines. The cable is rated for use up to 550MHz and is rated CMR.

### CONDUCTORS:

- Solid soft drawn bare copper per ASTM B3

### INSULATION:

- High density polyethylene (HDPE)

### CABLING:

- 4 twisted pairs are cabled together and each pair is twisted in different lays to minimize cross-talk interferences. The pairs are separated from each other by an X divider

### SHIELD:

- Aluminum polyester backed shielding tape with a tined copper drain wire

### JACKET:

- Polyvinyl chloride (PVC)

### STANDARDS:

- UL listed or ETL verified Type CMR
- UL 444, 1666
- NEC Article 800
- TIA/EIA-568
- ISO/IEC-11801

| CAT6 (STP) CMR 24 AWG 4 Pairs | | | |
|---|---|---|---|
| Part Number | Type | Nominal Overall Diameter | Approx. Weight |
| | | inches | lbs/kft |
| TEL24-4PC6-PVCSH | CMR | 0.290 | 34 |

| Performance | | | | | |
|---|---|---|---|---|---|
| Frequency | ACR, min. | Characteristic Impedance | Attenuation @20°C, max. | Worst Pr Next, min. | PS-Next, min. |
| MHz | dB/100m | Ω/100m | dB/100m | dB/100m | dB/100m |
| 1.0 | 72.3 | 100 ± 15% | 2.0 | 74.3 | 72.3 |
| 4.0 | 61.5 | 100 ± 15% | 3.8 | 65.3 | 63.3 |
| 10.0 | 53.3 | 100 ± 15% | 6.0 | 59.3 | 57.3 |
| 16.0 | 48.6 | 100 ± 15% | 7.6 | 56.2 | 54.2 |
| 20.0 | 46.3 | 100 ± 15% | 8.5 | 54.8 | 52.8 |
| 25.0 | 43.8 | 100 ± 15% | 9.5 | 53.3 | 51.3 |
| 31.3 | 41.2 | 100 ± 15% | 10.7 | 51.9 | 49.9 |
| 62.5 | 32.0 | 100 ± 15% | 15.4 | 47.4 | 45.4 |
| 100.0 | 24.5 | 100 ± 15% | 19.8 | 44.3 | 42.3 |
| 200.0 | 10.8 | 100 ± 15% | 29.0 | 39.8 | 37.8 |
| 250.0 | 5.5 | 100 ± 15% | 32.8 | 38.3 | 36.3 |

All values are nominal and subject to correction



1-800-945-5542
www.PriorityWire.com

# Category 6 Direct Burial
## Data Communication Cable

### APPLICATION:

Category 6 Direct Burial Data Communication Cable is suitable to be used as structured cabling for voice and high speed data in commercial and residential building for voice, video and LAN data lines, when installation is to be directly buried in earth. The Cable is suitable for use up to 550MHz and is rated CMX and CMR.

### CONDUCTORS:

- Solid bare copper

### INSULATION:

- High density polyethylene (HDPE)

### CABLING:

- 4 twisted pairs are cabled together and each pair is twisted in different lays to minimize cross-talk interferences. The pairs are separated from each other by an X divider and the cable is water block gel filled

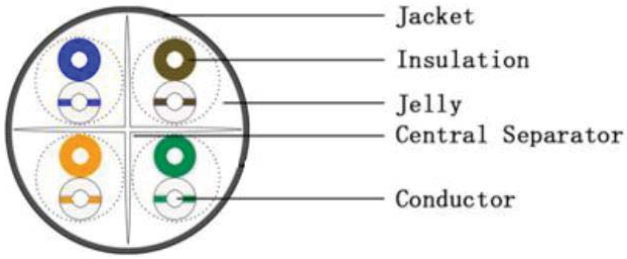
### JACKET:

- Black sunlight resistant, CMX, CMR and direct burial rated PE

### STANDARDS:

- UL listed or ETL verified Type CMX, CMR
- UL 444 & 1666
- Type CMX and CMR per NEC Article 800
- TIA/EIA-568-C.2

| CAT6 CMX & CMR 23 AWG 4 Pairs | | | |
|---|---|---|---|
| Part Number | Type | Nominal Overall Diameter | Approx. Weight |
| | | inches | lbs/kft |
| TEL24-4PC6-DB-GEL-RL | CMX & CMR | 0.260 | 30 |




| Electrical Characteristics (20˚C) | | |
|---|---|---|
| 1.0~ 250 MHz Impedance | 100 ± 15% | ohms |
| 1.0~250.0MHz Delay Skew | <45 | ns/100m |
| Mutual Capacitance @ 1KHz, 20°C | <5.6 | pF/100m |
| Cap. Unbalanced to Ground @ 1KHz, 20°C | <330 | pF/100m |
| Max. Conductor DC Resistance 20°C | <9.38 | ohms/100m |
| Resistance Unbalance 20°C | <5 | % |

| Performance | | | | | | | |
|---|---|---|---|---|---|---|---|
| Frequency | Return Loss dB | NEXT, min. | PSNEXT, min. | ACRF, min. | PSACRF, min. | Insertion Loss | Delay, max. |
| MHz | minimum | dB/100m | dB/100m | dB/100m | dB/100m | dB/100m | ns/100m |
| 1.0 | 20.0 | 74.3 | 72.3 | 67.8 | 64.8 | 2.0 | 600 |
| 4.0 | 23.0 | 65.3 | 63.3 | 55.8 | 52.8 | 3.8 | 582 |
| 8.0 | 24.5 | 60.8 | 58.8 | 49.7 | 46.7 | 5.3 | 577 |
| 10.0 | 25.0 | 59.3 | 57.3 | 47.8 | 44.8 | 6.0 | 575 |
| 16.0 | 25.0 | 56.2 | 54.2 | 43.7 | 40.7 | 7.6 | 573 |
| 20.0 | 25.0 | 54.8 | 52.8 | 41.8 | 38.8 | 8.5 | 572 |
| 25.0 | 24.2 | 53.3 | 51.3 | 39.8 | 36.8 | 9.5 | 571 |
| 31.3 | 23.3 | 51.9 | 49.9 | 37.9 | 34.9 | 10.7 | 570 |
| 62.5 | 20.7 | 47.4 | 45.4 | 31.9 | 28.9 | 15.4 | 579 |
| 100.0 | 19.0 | 44.3 | 42.3 | 27.8 | 24.8 | 19.8 | 578 |
| 200.0 | 16.4 | 39.8 | 37.8 | 21.8 | 18.8 | 29.0 | 577 |
| 250.0 | 15.6 | 38.3 | 36.3 | 19.8 | 16.8 | 32.8 | 576 |

All values are nominal and subject to correction



1-800-945-5542
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# Category 6 Plenum
## Data Communication Cable

### APPLICATION:

Category 6 Plenum Data Communication Cable is suitable to be used as structured cabling for voice and high speed data in commercial and residential building for voice, video and LAN data lines, when they are installed in air return ducts or when limiting the transmission of smoke is required. The cable is rated for use at 550MHz and is rated CMP.

### CONDUCTORS:

- Solid soft drawn bare copper per ASTM B3

### INSULATION:

- Low smoke plenum rated insulation

### CABLING:

- 4 twisted pairs are cabled together and each pair is twisted in different lays to minimize cross-talk interferences. The pairs are separated from each other by an X divider

### JACKET:

- Low smoke plenum rated jacket

### STANDARDS:

- UL listed or ETL verified Type CMP
- UL 444, 1666
- NEC Article 800, NFPA 262
- TIA/EIA-568
- ISO/IEC-11801

| CAT6 (UTP) CMP Plenum 24 AWG 4 Pairs | | | |
|---|---|---|---|
| Part Number | Type | Nominal Overall Diameter | Approx. Weight |
| | | inches | lbs/kft |
| TEL24-4PC6-PLE | CMP | 0.200 | 25 |

| Performance | | | | | |
|---|---|---|---|---|---|
| Frequency | ACR, min. | Characteristic Impedance | Attenuation @20°C, max. | Worst Pr Next, min. | PS-Next, min. |
| MHz | dB/100m | Ω/100m | dB/100m | dB/100m | dB/100m |
| 1.0 | 72.3 | 100 ± 15% | 2.0 | 74.3 | 72.3 |
| 4.0 | 61.5 | 100 ± 15% | 3.8 | 65.3 | 63.3 |
| 10.0 | 53.3 | 100 ± 15% | 6.0 | 59.3 | 57.3 |
| 16.0 | 48.6 | 100 ± 15% | 7.6 | 56.2 | 54.2 |
| 20.0 | 46.3 | 100 ± 15% | 8.5 | 54.8 | 52.8 |
| 25.0 | 43.8 | 100 ± 15% | 9.5 | 53.3 | 51.3 |
| 31.3 | 41.2 | 100 ± 15% | 10.7 | 51.9 | 49.9 |
| 62.5 | 32.0 | 100 ± 15% | 15.4 | 47.4 | 45.4 |
| 100.0 | 24.5 | 100 ± 15% | 19.8 | 44.3 | 42.3 |
| 200.0 | 10.8 | 100 ± 15% | 29.0 | 39.8 | 37.8 |
| 250.0 | 5.5 | 100 ± 15% | 32.8 | 38.3 | 36.3 |

All values are nominal and subject to correction



1-800-945-5542
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# Category 6A PVC
## Data Communication Cable

### APPLICATION:

Category 6A PVC Data Communication Cable is suitable to be used as structured cabling for voice and high speed data in commercial and residential building for voice, video and LAN data lines. Suitable for use up to 10 Gig and is rated CMR.

### CONDUCTORS:

- 23AWG solid soft drawn bare copper conductors

### INSULATION:

- High density polyethylene (HDPE)
- Color Code: White/Blue stripe & Blue, White/Orange stripe & Orange, White/Green stripe & Green, White/Brown stripe & Brown

### CABLING:

- 4 twisted pairs with a central separator are cabled together and each pair is twisted in different lays to minimize cross-talk interferences

### JACKET:

- Polyvinyl chloride (PVC) jacket with a rip cord
- Storage, installation and operating temp is -30°C to +60°C
- Available in blue and yellow

### STANDARDS:

- UL, c(UL) & ETL verified
- Type CMR, per NEC Article 800
- ANSI/ICEA S-90-661
- TIA /EIA-568-B.2
- ISO/IEC-11801

| CAT 6A (UTP) CMR, 4 Twisted Pair | | | |
|---|---|---|---|
| Part Number | Type | Nominal Overall Diameter | Approx. Weight |
| | | inches | lbs/kft |
| TEL24-4PC6A-PVC | CMR | 0.279 | 39 |

| Performance | | | | | | | |
|---|---|---|---|---|---|---|---|
| Frequency | ATT | Delay | NEXT | PS-NEXT | ELFEXT | PS-ELFEXT | Return Loss |
| | 328' max | 328' min | 328' min | 328' min | 328' min | 328' min | minimum |
| MHz | dB/100m | ns/100m | dB/100m | dB/100m | dB/100m | dB/100m | dB/100m |
| 1.0 | 2.1 | 570.0 | 74.3 | 72.3 | 67.8 | 64.8 | 20.0 |
| 4.0 | 3.8 | 552.0 | 65.3 | 63.3 | 55.8 | 52.8 | 23.0 |
| 8.0 | 5.3 | 546.7 | 60.8 | 58.8 | 49.7 | 46.7 | 24.5 |
| 10.0 | 5.9 | 545.4 | 59.3 | 57.3 | 47.8 | 44.8 | 25.0 |
| 16.0 | 7.5 | 543.0 | 56.2 | 54.2 | 43.7 | 40.7 | 25.0 |
| 20.0 | 8.4 | 542.1 | 54.8 | 52.8 | 41.8 | 38.8 | 25.0 |
| 25.0 | 9.4 | 541.2 | 53.3 | 51.3 | 39.8 | 36.8 | 24.3 |
| 31.3 | 10.5 | 540.4 | 51.9 | 49.9 | 37.9 | 34.9 | 23.6 |
| 62.5 | 15.0 | 538.6 | 47.4 | 45.4 | 31.9 | 28.9 | 21.5 |
| 100.0 | 19.1 | 537.6 | 44.3 | 42.3 | 27.8 | 24.8 | 20.1 |
| 200.0 | 27.6 | 536.5 | 39.8 | 37.8 | 21.8 | 18.8 | 18.0 |
| 250.0 | 31.1 | 536.3 | 38.3 | 36.3 | 19.8 | 16.8 | 17.3 |
| 300.0 | 34.3 | 536.1 | 37.1 | 35.1 | 18.3 | 15.3 | 16.8 |
| 500.0 | 45.3 | 535.6 | 33.8 | 31.8 | 13.8 | 10.8 | 15.2 |
| 750.0 | 62.3 | 535.3 | 31.1 | 29.1 | 10.3 | 7.3 | 14.0 |

All values are nominal and subject to correction

RoHS COMPLIANT

c UL us LISTED

1-800-945-5542
www.PriorityWire.com

PRIORITY WIRE & CABLE, INC.

# Type L2 – RHH/RHW Class I without Braid, 600V

## APPLICATION:

Priority Wire & Cable's FlexTel® Type L2 Central Office Power Cable is a rugged; RHH/RHW rated wire for 600V applications. Central Office Power Cable is suitable for use in telecommunication applications and for power distribution of AC and DC power in conduit or cable trays. Central Office Power Cable is available in a variety of colors.

## CONDUCTORS:

- Class I stranded tinned copper conductor for increased flexibility in accordance with ASTM B-33 & B-172 and covered with a mylar tape

## INSULATION:

- Low Smoke Zero Halogen LSZH cross linked polyolefin XLPO insulation, which is rated 90°C
- Maximum conductor operating temperature: 90°C dry, 75°C wet or dry, maximum short circuits 250°C
- Colors and sunlight resistance available upon request

## STANDARDS:

- UL listed Power Cable for Telephone Central Office Applications
- 1/0 and larger listed and marked FT4 and for CT use
- ST1 per UL1685 Vertical Tray Flame Test
- Meets UL VW-1 flame test
- Passes IEEE 1202, FT4 Vertical Tray Flame Test
- UL 44 Thermoset Insulated Wires and Cables
- Meets Telecordia specification GR-347-CORE
- CSA C22.2 No. 38 Thermoset-Insulated Wires and Cables, RW90

## COLOR CODE:

| Color | Code |
|---|---|
| Red | RAL3027 |
| Blue | RAL5017 |
| Grey | RAL7040 |
| Green | RAL6017 |

| Part Number | Conductor Size | No. of Strands | Conductor Diameter | Insulation Min. Avg. Thickness | Overall Diameter | Net Weight | Max DC Resistance @20C | Current Capacity** |
|---|---|---|---|---|---|---|---|---|
| | AWG/kcmil | | inches | mils | inches | lbs/kft | ohms/kft | amps |
| 14-01COP-124194-L2 | 14 | 41* | 0.072 | 45 | 0.179 | 26 | 2.8200 | 25 |
| 12-01COP-124194-L2 | 12 | 65* | 0.091 | 45 | 0.199 | 35 | 1.7700 | 30 |
| 10-01COP-124194-L2 | 10 | 105* | 0.116 | 45 | 0.226 | 50 | 1.1100 | 40 |
| 8-01COP-124194-L2 | 8 | 41 | 0.153 | 60 | 0.280 | 85 | 0.6790 | 55 |
| 6-01COP-124194-L2 | 6 | 65 | 0.188 | 60 | 0.315 | 122 | 0.4360 | 75 |
| 4-01COP-124194-L2 | 4 | 105 | 0.260 | 60 | 0.385 | 186 | 0.2740 | 95 |
| 2-01COP-124194-L2 | 2 | 168 | 0.305 | 60 | 0.430 | 256 | 0.1720 | 130 |
| 1/0-01COP-124194-L2 | 1/0 | 266 | 0.392 | 80 | 0.560 | 434 | 0.1090 | 170 |
| 2/0-01COP-124194-L2 | 2/0 | 342 | 0.455 | 80 | 0.620 | 533 | 0.0868 | 195 |
| 4/0-01COP-124194-L2 | 4/0 | 532 | 0.577 | 80 | 0.745 | 832 | 0.0546 | 260 |
| 350-01COP-124194-L2 | 350 | 888 | 0.760 | 95 | 0.960 | 1323 | 0.0334 | 350 |
| 500-01COP-124194-L2 | 500 | 1221 | 0.890 | 95 | 1.090 | 1810 | 0.0234 | 430 |
| 750-01COP-124194-L2 | 750 | 1850 | 1.094 | 110 | 1.325 | 2680 | 0.0157 | 535 |

*All values are nominal and subject to correction*
**Class K stranding*
*** Ampacity based on NEC table 310.15(B)(16) for no more than three current-carrying conductors in raceway, cable, or earth at 90˚C conductor temperature and 30˚C ambient air temperature*



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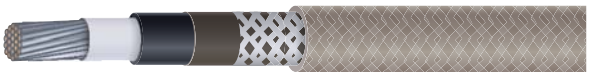
# Type L3 – RHH/RHW Class B with Braid, 600V



## APPLICATION:

Priority Wire & Cable's FlexTel® Type L2 Central Office Power Cable is a rugged; RHH/RHW rated wire for 600V applications. Central Office Power Cable is suitable for use in telecommunication applications and for power distribution of AC and DC power in conduit or cable trays. Central Office Power Cable is available in a variety of colors.

## CONDUCTORS:

- Class B stranded tinned copper conductor in accordance with ASTM B-33 & B-8 and covered with a mylar tape

## INSULATION:

- Low Smoke Zero Halogen LSZH cross linked polyolefin XLPO insulation, which is rated 90°C. Cables 6 AWG or larger have a layer of mylar tape over the insulation

## JACKET:

- Cotton braid jacket coated in gray saturant finish
- Maximum conductor operating temperature: 90°C dry, 75°C wet or dry, maximum short circuits 250°C
- Other colors and sunlight resistance available upon request

## STANDARDS:

- UL listed Power Cable for Telephone Central Office Applications
- 1/0 and larger listed and marked FT4 and for CT use
- ST1 per UL1685 Vertical Tray Flame Test
- Meets UL VW-1 flame test
- Passes IEEE 1202, FT4 Vertical Tray Flame Test
- UL 44 Thermoset Insulated Wires and Cables
- Meets Telecordia specification GR-347-CORE
- CSA C22.2 No. 38 Thermoset-Insulated Wires and Cables, RW90

## COLOR CODE:

| Color | Code |
|---|---|
| Red | RAL3027 |
| Blue | RAL5017 |
| Grey | RAL7040 |
| Green | RAL6017 |

| Part Number | Conductor Size | No. of Strands | Conductor Diameter | Insulation Min. Avg. Thickness | Overall Diameter | Net Weight | Max DC Resistance @20C | Current Capacity** |
|---|---|---|---|---|---|---|---|---|
| | AWG/kcmil | | inches | mils | inches | lbs/kft | ohms/kft | amps |
| 14-01COP-124194-L3 | 14 | 7 | 0.071 | 45 | 0.225 | 37 | 2.730 | 25 |
| 12-01COP-124194-L3 | 12 | 7 | 0.089 | 45 | 0.247 | 47 | 1.720 | 30 |
| 10-01COP-124194-L3 | 10 | 7 | 0.113 | 45 | 0.272 | 63 | 1.080 | 40 |
| 8-01COP-124194-L3 | 8 | 7 | 0.142 | 60 | 0.327 | 93 | 0.678 | 55 |
| 6-01COP-124194-L3 | 6 | 7 | 0.178 | 60 | 0.370 | 132 | 0.427 | 75 |
| 4-01COP-124194-L3 | 4 | 7 | 0.225 | 60 | 0.414 | 190 | 0.269 | 95 |
| 2-01COP-124194-L3 | 2 | 7 | 0.283 | 60 | 0.482 | 280 | 0.169 | 130 |
| 1/0-01COP-124194-L3 | 1/0 | 19 | 0.362 | 80 | 0.606 | 441 | 0.106 | 170 |
| 2/0-01COP-124194-L3 | 2/0 | 19 | 0.405 | 80 | 0.651 | 538 | 0.084 | 195 |
| 4/0-01COP-124194-L3 | 4/0 | 19 | 0.528 | 80 | 0.756 | 808 | 0.052 | 260 |
| 350-01COP-124194-L3 | 350 | 37 | 0.661 | 95 | 0.930 | 1295 | 0.032 | 350 |
| 500-01COP-124194-L3 | 500 | 37 | 0.789 | 95 | 1.066 | 1796 | 0.022 | 430 |
| 750-01COP-124194-L3 | 750 | 61 | 0.968 | 110 | 1.267 | 2663 | 0.0148 | 535 |

*All values are nominal and subject to correction*

*** Ampacity based on NEC table 310.15(B)(16) for no more than three current-carrying conductors in raceway, cable, or earth at 90˚C conductor temperature and 30˚C ambient air temperature*



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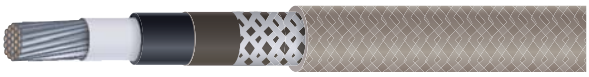
# Type L4 – RHH/RHW Class I with Braid, 600V



## APPLICATION:

Priority Wire & Cable's FlexTel® Type L4 Central Office Power Cable is a rugged; RHH/RHW rated wire for 600V applications. Central Office Power Cable is suitable for use in telecommunication applications and for power distribution of AC and DC power in conduit or cable trays. Central Office Power Cable is available in a variety of colors.

## CONDUCTORS:

- Class I stranded tinned copper conductor for increased flexibility in accordance with ASTM B-33 & B-172 and covered with a mylar tape

## INSULATION:

- Low Smoke Zero Halogen LSZH cross linked polyolefin XLPO insulation, which is rated 90°C. Cables 6 AWG or larger have a layer of mylar tape over the insulation

## JACKET:

- Cotton braid jacket coated in gray saturant finish
- Maximum conductor operating temperature: 90°C dry, 75°C wet or dry, maximum short circuits 250°C
- Other colors and sunlight resistance available upon request

## STANDARDS:

- UL listed Power Cable for Telephone Central Office Applications
- 1/0 and larger listed and marked FT4 and for CT use
- ST1 per UL1685 Vertical Tray Flame Test
- Meets UL VW-1 flame test
- Passes IEEE 1202, FT4 Vertical Tray Flame Test
- UL 44 Thermoset Insulated Wires and Cables
- Meets Telecordia specification GR-347-CORE
- CSA C22.2 No. 38 Thermoset-Insulated Wires and Cables, RW90

## COLOR CODE:

| Color | Code |
|---|---|
| Red | RAL3027 |
| Blue | RAL5017 |
| Grey | RAL7040 |
| Green | RAL6017 |

| Part Number | Conductor Size | No. of Strands | Conductor Diameter | Insulation Min. Avg. Thickness | Overall Diameter | Net Weight | Max DC Resistance @20C | Current Capacity** |
|---|---|---|---|---|---|---|---|---|
| | AWG/kcmil | | inches | mils | inches | lbs/kft | ohms/kft | amps |
| 14-01COP-124194-L4 | 14 | 41* | 0.072 | 45 | 0.250 | 43 | 2.8200 | 25 |
| 12-01COP-124194-L4 | 12 | 65* | 0.091 | 45 | 0.270 | 54 | 1.7700 | 30 |
| 10-01COP-124194-L4 | 10 | 105* | 0.116 | 45 | 0.295 | 72 | 1.1100 | 40 |
| 8-01COP-124194-L4 | 8 | 41 | 0.153 | 60 | 0.330 | 99 | 0.6790 | 55 |
| 6-01COP-124194-L4 | 6 | 65 | 0.188 | 60 | 0.365 | 137 | 0.4360 | 75 |
| 4-01COP-124194-L4 | 4 | 105 | 0.260 | 60 | 0.435 | 199 | 0.2740 | 95 |
| 2-01COP-124194-L4 | 2 | 168 | 0.305 | 60 | 0.480 | 283 | 0.1720 | 130 |
| 1/0-01COP-124194-L4 | 1/0 | 266 | 0.392 | 80 | 0.615 | 460 | 0.1090 | 170 |
| 2/0-01COP-124194-L4 | 2/0 | 342 | 0.455 | 80 | 0.675 | 562 | 0.0868 | 195 |
| 4/0-01COP-124194-L4 | 4/0 | 532 | 0.577 | 80 | 0.800 | 868 | 0.0546 | 260 |
| 350-01COP-124194-L4 | 350 | 888 | 0.760 | 95 | 1.015 | 1373 | 0.0334 | 350 |
| 500-01COP-124194-L4 | 500 | 1221 | 0.890 | 95 | 1.145 | 1860 | 0.0234 | 430 |
| 750-01COP-124194-L4 | 750 | 1850 | 1.094 | 110 | 1.380 | 2738 | 0.0157 | 535 |

*All values are nominal and subject to correction*
**Class K stranding*
*** Ampacity based on NEC table 310.15(B)(16) for no more than three current-carrying conductors in raceway, cable, or earth at 90˚C conductor temperature and 30˚C ambient air temperature*



1-800-945-5542
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# RG-6/U Coaxial Cable

## APPLICATION:

RG-6/U Coaxial Cables are suitable for use in RF signal transmission in MATV and CATV applications.

## CONDUCTORS:

RG-6/U Coaxial Cable has either a:

- CCS – Copper Clad Steel, per ASTM B869
- BC – Bare Copper Conductor, per ASTM B3, B258

## DIELECTRIC:

- Gas expanded polyethylene (PE)

## JACKET:

- Flame retardant PVC

## STANDARDS:

- UL 444
- NEC CM, CATV, CL2
- **RG6/U60%DIRBUR**: Direct Burial Rated
- **RG-6/UQUADCUCMR**: NEC CMR, CATV / ETL Listed

| Part Number | Conductor Size | Conductor Diameter | Dielectric Diameter | Cable Diameter | DCR* | Impedance | Capacitance | Velocity of Propagation | Weight |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | inches | inches | inches | Ω/kft | Ohm | pF/ft. | % | lbs./kft |
| RG6/U60% | 18 | 0.040 | 0.180 | 0.273 | 28.9 | 75 | 16.5 | 85 | 30 |
| RG6/U60%DIRBUR | 18 | 0.040 | 0.180 | 0.273 | 28.9 | 75 | 16.5 | 85 | 30 |
| RG6/UDUAL | 18 | 0.040 | 0.180 | 0.270 x 0.595 | 28.9 | 75 | 16.5 | 85 | 60 |
| RG6/UQUAD6040 | 18 | 0.040 | 0.180 | 0.292 | 28.9 | 75 | 16.5 | 85 | 35 |
| RG6/UQUADCUCMR | 18 | 0.040 | 0.180 | 0.297 | 6.4 | 75 | 16.5 | 83 | 35 |

All values are nominal and subject to correction
*Conductor resistance at 68°F/20°C

| Part Number | Conductor Type | Insulation Material | Shield Type & Coverage |
|---|---|---|---|
| RG6/U60% | CCS | Cellular Polyethylene | 100% AL Foil + 60% AL Braid |
| RG6/U60%DIRBUR | CCS | Cellular Polyethylene | 100% AL Foil + 60% AL Braid |
| RG6/UDUAL | CCS | Cellular Polyethylene | 100% AL Foil + 60% AL Braid |
| RG6/UQUAD6040 | CCS | Cellular Polyethylene | 100% AL Foil + 60% AL Braid<br>100% AL Foil + 40% AL Braid |
| RG6/UQUADCUCMR | BC | Foamed FEP | 100% AL Foil + 60% AL Braid<br>100% AL Foil + 40% AL Braid |

| Attenuation | |
|---|---|
| Frequency | @68°F / 20°C |
| MHz | dB/100 ft. |
| 5 | 0.58 |
| 50 | 1.48 |
| 100 | 2.01 |
| 200 | 2.86 |
| 400 | 4.23 |
| 700 | 5.96 |
| 900 | 6.96 |
| 1000 | 7.45 |
| 1200 | 8.25 |
| 1450 | 9.34 |
| 1800 | 10.69 |
| 2200 | 11.54 |
| 2500 | 11.70 |
| 3000 | 13.07 |



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# RG-6/U Plenum Coaxial Cable

## APPLICATION:

RG-6/U Plenum Coaxial Cables are suitable for use in RF signal transmission in CATV and CCTV applications.

## CONDUCTORS:

- BC – Bare Copper Conductor, per ASTM B3, B258

## DIELECTRIC:

- Foamed FEP

## JACKET:

- White plenum rated PVC

## STANDARDS:

- UL 444
- **RG6/U PLENUM CATV**: NEC Type CATVP, CMP
- **RG6/U PLENUM CCTV**: NEC Type CCTV, CMP
- ETL Listed
- Operating Temperature -5°C to 75°C

| Part Number | Conductor Size | Conductor Diameter | Dielectric Diameter | Cable Diameter | DCR* | Impedance | Capacitance | Velocity of Propagation | Weight |
|---|---|---|---|---|---|---|---|---|---|
| | AWG | inches | inches | inches | Ω/kft | Ohm | pF/ft. | % | lbs./kft |
| RG6/U PLENUM CATV | 18 | 0.040 | 0.170 | 0.230 | 6.4 | 75 | 15.8 | 84 | 30 |
| RG6/U PLENUM CCTV | 18 | 0.040 | 0.170 | 0.225 | 6.4 | 75 | 15.8 | 84 | 36 |

All values are nominal and subject to correction
*Conductor resistance at 68°F/20°C

| Part Number | Conductor Type | Insulation Material | Shield Type & Coverage |
|---|---|---|---|
| RG6/U PLENUM CATV | BC | Foamed FEP | 100% AL Foil + 90% AL Braid |
| RG6/U PLENUM CCTV | BC | Foamed FEP | 95% BC Braid |

| RG6/U PLENUM CATV | |
|---|---|
| Attenuation | |
| Frequency | @68°F / 20°C |
| MHz | dB/100 ft. |
| 10 | 0.80 |
| 50 | 1.65 |
| 100 | 2.17 |
| 200 | 3.02 |
| 400 | 4.41 |
| 600 | 5.63 |
| 700 | 6.19 |
| 900 | 7.14 |
| 1000 | 7.65 |
| 1450 | 9.56 |
| 2200 | 11.68 |
| 3000 | 13.05 |

| RG6/U PLENUM CATV | |
|---|---|
| Attenuation | |
| Frequency | @68°F / 20°C |
| MHz | dB/100 ft. |
| 1 | 0.10 |
| 10 | 0.44 |
| 50 | 1.06 |
| 100 | 1.46 |
| 200 | 2.17 |
| 400 | 3.25 |
| 700 | 4.65 |
| 900 | 5.47 |
| 1000 | 5.85 |
| 1450 | 7.47 |
| 1800 | 8.50 |



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# RG-11 Coaxial Cable

## APPLICATION:

RG-11 Coaxial Cables are suitable for use in RF signal transmission in MATV, CATV and CCTV applications.

## CONDUCTORS:

RG-11 Coaxial Cable has either a:

- CCS – Copper Clad Steel, per ASTM B800, B869
- BC – Bare Copper Conductor, per ASTM B3, B258

## JDIELECTRIC:

- Gas expanded polyethylene (PE)

## STANDARDS:

- UL 444
- NEC CM, CATV, CCTV, CL2
- **RG11-Burial**: Direct Burial Rated

| Part Number | Conductor Size | Conductor Diameter | Dielectric Diameter | Cable Diameter | Shield DCR* | Impedance | Capacitance | Velocity of Propagation | Weight | Attenuation Chart |
|---|---|---|---|---|---|---|---|---|---|---|
| | AWG | inches | inches | inches | Ω/kft | Ohm | pF/ft. | % | lbs./kft | |
| RG11/U60% | 14 | 0.064 | 0.280 | 0.405 | 7.1 | 75 | 16.5 | 85 | 64 | 1 |
| RG11/UQUAD | 14 | 0.064 | 0.280 | 0.460 | 3.7 | 75 | 16.5 | 85 | 63 | 1 |
| RG11-Burial | 14 | 0.064 | 0.278 | 0.405 | 2.5 | 75 | 16.2 | 84 | 76 | 2 |

All values are nominal and subject to correction
*Conductor resistance at 68°F/20°C

| Part Number | Conductor Type | Insulation Material | Shield Type & Coverage | Jacket Type |
|---|---|---|---|---|
| RG11/U60% | CCS | Gas Injected PE | 100% AL Foil + 60% AL Braid | PVC |
| RG11/UQUAD | CCS | Gas Injected PE | 100% AL Foil + 60% AL Braid<br>100% AL Foil + 40% AL Braid | PVC |
| RG11-Burial | CCS | FEP | 95% Bare CU Braid | Poly |

| Chart 1 | |
|---|---|
| Attenuation | |
| Frequency | @68°F / 20°C |
| MHz | dB/100 ft. |
| 55 | 0.96 |
| 187 | 1.75 |
| 250 | 2.05 |
| 300 | 2.25 |
| 400 | 2.60 |
| 450 | 2.75 |
| 500 | 2.90 |
| 550 | 3.04 |
| 600 | 3.18 |
| 750 | 3.65 |
| 865 | 3.98 |
| 1000 | 4.35 |

| Chart 2 | |
|---|---|
| Attenuation | |
| Frequency | @68°F / 20°C |
| MHz | dB/100 ft. |
| 1 | 0.10 |
| 10 | 0.44 |
| 50 | 1.06 |
| 100 | 1.46 |
| 200 | 2.17 |
| 400 | 3.25 |
| 700 | 4.65 |
| 900 | 5.47 |
| 1000 | 5.85 |
| 1450 | 7.47 |
| 1800 | 8.50 |



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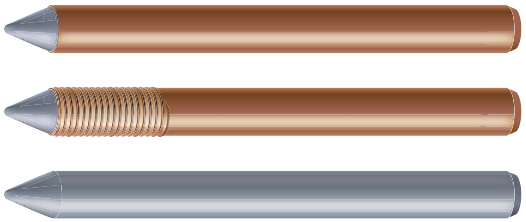
# Ground Rods



## APPLICATION:

Ground Rods are intended to be driven into earth to provide grounding for substations, towers, homes, buildings and all other structures that contain electrical products or for applications to provide grounding against lightning. They are available in copper coated steel or galvanized steel constructions.

## COPPER COVERED:

- High quality steel with a consistent covering of electrolytic copper

## GALVANIZED STEEL:

- High quality steel with a consistent covering of zinc

## STANDARDS:

- UL 467 for ground rods ½ to 1" diameter, in 8 to 10' lengths
- ASTM A153
- 13mil copper coated rods are both UL/RUS Approved

| Part Number | Rod Size | Master Bundle | Weight | Copper Thickness | UL Listed |
|---|---|---|---|---|---|
| | Diameter x Length | | lbs./100 Pcs | mils | |
| **Single Type** | | | | | |
| PWC126 | ½" x 6' | 100 | 400 | 5 | NO |
| PWC128-5 | ½" x 8' | 100 | 500 | 5 | NO |
| PWC128 | ½" x 8' | 100 | 500 | 10 | YES |
| PWC1210 | ½" x 10' | 100 | 625 | 10 | YES |
| PWC586 | ⅝" x 6' | 100 | 510 | 5 | NO |
| PWC588 | ⅝" x 8' | 100 | 700 | 10 | YES |
| PWC588-13 | ⅝" x 8' RUS | 100 | 700 | 13 | YES |
| PWC5810 | ⅝" x 10' | 100 | 900 | 10 | YES |
| PWC348 | ¾" x 8' | 50 | 1000 | 10 | YES |
| PWC3410 | ¾" x 10' | 50 | 1300 | 10 | YES |
| PWC110 | 1" x 10' | 25 | 2300 | 10 | YES |
| **Sectional Type** | | | | | |
| PWCS1210 | ½" x 10' | 100 | 625 | 10 | YES |
| PWCS588 | ⅝" x 8' | 100 | 680 | 10 | YES |
| PWCS5810 | ⅝" x 10' | 100 | 900 | 10 | YES |
| PWCS348 | ¾" x 8' | 50 | 1000 | 10 | YES |
| PWCS3410 | ¾" x 10' | 50 | 1300 | 10 | YES |
| PWCS110 | 1" x 10' | 25 | 2300 | 10 | YES |
| **Hot Dipped Galvanized Ground Rods** | | | | | |
| PWCG125 | ½" x 5' | 10 | 300 | - | NO |
| PWCG126 | ½" x 6' | 10 | 400 | - | NO |
| PWCG586 | ⅝" x 6' | 5 | 600 | - | NO |
| PWCG588 | ⅝" x 8' | 5 | 734 | - | NO |
| PWCG5810 | ⅝" x 10' | 5 | 1000 | - | NO |
| PWCG3410 | ¾" x 10' | 5 | 1500 | - | NO |

*All values are nominal and subject to correction.*



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