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OUTSIDE PLANT WIRE & CABLE
FOR TELECOMMUNICATIONS
JULY 2008

Telecommunications Cables

This catalog contains in-depth information on the most comprehensive line of Telecommunications cables for the distribution of telecommunication signals for outside use.

The product and technical sections have been developed with an easy-to-use "spec-on-a-page" format. It features the latest information on Telecommunications cables, from applications and construction to detailed technical and specification data. There's also a numerical part number index.



Our cables are readily available through our network of authorized stocking distributors and distribution centers.

We are dedicated to customer service and satisfaction—so call our team of professionally trained sales personnel to meet your application needs.



All information in this catalog is presented solely as a guide to product selection and is believed to be reliable. All printing errors are subject to correction in subsequent releases of this catalog. Although General Cable has taken precautions to ensure the accuracy of the product specifications at the time of publication, the specifications of all products contained herein are subject to change without notice.

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Now one industry leader focuses its worldwide resources on delivering maximum value to customers. It's the cost-effective advantage of a single resource, a single company that provides the broadest product range, the highest level of commitment to customer and technical support, the most cost-effective manufacturing and

distribution, and the most responsive customer-first service. In today's highly competitive worldwide markets, General Cable provides the single-source solution with benefits that go straight to your bottom line. Ask your representative about other General Cable products.



Specialty Cables

General Cable manufactures a broad range of specialty cables that meet the exacting specifications for original equipment manufacturers (OEMs), military, transit, offshore and marine shipboard, nuclear, and mining applications. General Cable's engineered Brand Rex and Anaconda® Brand wire and cable solutions provide great lifecycle performance and reliability—meeting customer applications requirements today, while setting tomorrow's standards.

Specialty Wire Harnesses

We supply application-specific and custom-designed cable, harnesses and assemblies for a wide variety of OEM applications, including business machines, material handling equipment, factory automation, medical equipment and the automotive aftermarket. General Cable is a global leader in the manufacture of automotive wire and cable—from ignition wire sets and single leads to bulk ignition wire, primary wire and battery starter cable.

Communications Cables

Data Communications Cables

Our GenSPEED® Brand products are on the job wherever enhanced performance is critical—from 10 Gigabit Ethernet, token ring and broadband applications to patch panels, communications closets and plenum applications. We offer one of the most comprehensive lines of enhanced high-speed Category products, including PanGen™ structured cabling system solutions.

Fiber Optic Cables

We provide a full menu of NextGen® Brand fiber optic cables for data communications and voice and video networks. Our products range from tight buffer and armored products for military applications to loose tube and hybrid cables for communications networks. We also offer advanced Blolite® blown fiber systems for Local Area Networks and campus applications.

Telecommunications Cables

Our broad range of industry-standard General Cable outside plant wire and cable products ensures reliable, cost-effective performance. We provide air core, filled core and specialty wire products for aerial, buried and duct applications.



The Power of ONE®

Energy Cables

Underground High-Voltage and Extra-High-Voltage Cables

General Cable's complete line of Silec® insulated high- and extra-high-voltage underground energy cables, from 63kV up to 500kV, and our state-of-the-art accessories—such as pre-molded joints and terminals—enable us to provide turnkey design and engineering services for the global, systems-engineered, electric utility market.

Bare Overhead High-Voltage Transmission and Distribution Cables

Our BICC® Brand cables satisfy the varied and specialized demands of the electric utility marketplace. Our TransPowr® bare aluminum overhead conductors are available in standard ACSR, specialized T-2 designs and high-temperature ACSS/TW designs. Our new ACCC/TW conductors feature an innovative composite core construction which possesses high temperature and increased strength characteristics.

Low- and Medium-Voltage Distribution Cables

General Cable's extensive line of BICC® Brand PowrServ® and EmPowr® copper and aluminum cables serve the total distribution needs of electric utilities, rural electric co-ops and the public power market for both traditional and renewable energy resources.

Industrial & Specialty Cables

Cord and Cordset Products

General Cable's Carol® Brand is the most recognized name in flexible cords for temporary power. Our extensive line includes portable cord, cordsets, portable power cable and premium-grade cable for commercial and industrial applications.

Electronic Cables

Our Carol® Brand products fulfill the complete wire and cable requirements of the fast-changing electronics, sound and security marketplaces. We offer hookup wire; communications cable; computer, coaxial and microphone cables; and special designs for security systems, fire alarms, and audio, video and digital broadcasts.

Industrial Cables

General Cable's industrial instrumentation, power and control cables serve an extensive range of markets, including power generation, refining and petrochemical, natural gas production, steel, pulp and paper, and factory automation.

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Air Core Cables

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Plastic insulated Air Core Cables provide a broad range of pair sizes for the distribution of telecommunication signals for outside use. These cables can be installed in underground ducts or strung between poles, lashed to a steel messenger or equipped with a built-in messenger wire.

An industry-standard color-coding system provides full identification of every pair through the use of 10 different insulating colors and non-hygroscopic unit binders.

Different optional sheath designs provide electrical shielding necessary for proper grounding and mechanical protection against rodents and other physical damage. A black, weather-resistant polyethylene jacket is used on all constructions for protection against long-term outdoor exposure.

The temperature range that Telecommunications cable can withstand is:

For storage and operation:
-45°C to 80°C
-49°F to 176°F

For installation:
-30°C to 60°C
-22°F to 140°F

All cables are equipped with surface-printed identification and sequential footage markings.

The cable design for 19, 22 and 24 AWG sizes has the transmission performance capability of 100Ω, Category 3 Backbone UTP Cables specified in TIA/EIA-568-B.

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Air Core Cable

RDUP (RUS) PE-22 AL

Spec. 2003

Core Construction:

Conductors:

- Solid, annealed copper; sizes 19, 22 and 24 AWG

Insulation:

- Solid, high density polyethylene, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

Sheath:

Aluminum Shield:

- Corrugated, copolymer coated, 0.008" aluminum tape applied longitudinally with an overlap

Jacket:

- Black, linear low density polyethylene

Application(s):

- For aerial installation by attachment to a support strand
- For underground installation when placed in a duct (pressurization is recommended)

Compliance:

- RDUP (RUS) Specification PE-22

Packaging:

- Standard lengths are shipped on non-returnable wood reels
- Non-standard packaging is available upon request



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 7527757 | 6/19 | 0.49 | 110 | 5000 |
| 7527765 | 12/19 | 0.62 | 180 | 5000 |
| 7527781 | 25/19 | 0.79 | 320 | 5000 |
| 7527799 | 50/19 | 1.10 | 590 | 2500 |
| 7527005 | 6/22 | 0.40 | 70 | 5000 |
| 7527013 | 12/22 | 0.49 | 110 | 5000 |
| 7527021 | 25/22 | 0.63 | 190 | 5000 |
| 7527039 | 50/22 | 0.90 | 325 | 5000 |
| 7527054 | 100/22 | 1.10 | 595 | 2500 |
| 7527062 | 200/22 | 1.40 | 1140 | 2500 |
| 7527112 | 6/24 | 0.37 | 55 | 5000 |
| 7527120 | 12/24 | 0.43 | 80 | 5000 |
| 7527138 | 25/24 | 0.54 | 135 | 5000 |
| 7527146 | 50/24 | 0.67 | 225 | 5000 |
| 7527161 | 100/24 | 0.88 | 400 | 5000 |
| 7527187 | 200/24 | 1.20 | 745 | 2500 |
| 7527195 | 300/24 | 1.40 | 1090 | 2500 |
| 7527203 | 400/24 | 1.60 | 1430 | 2500 |
| 7527211 | 600/24 | 1.90 | 2120 | 1250 |
| 7527229 | 900/24 | 2.30 | 3110 | 1250 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Figure 8 Air Core Cable

RDUP (RUS) PE-38 AL

Spec. 2003-F8



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 2012020 | 6/19 | 0.49 | 260 | 5000 |
| 2012021 | 12/19 | 0.62 | 330 | 5000 |
| 2012023 | 25/19 | 0.81 | 480 | 5000 |
| 2012010 | 6/22 | 0.40 | 220 | 5000 |
| 2012011 | 12/22 | 0.49 | 260 | 5000 |
| 2012000 | 25/22 | 0.61 | 335 | 5000 |
| 2012001 | 50/22 | 0.81 | 485 | 5000 |
| 2012015 | 6/24 | 0.37 | 205 | 5000 |
| 2012016 | 12/24 | 0.43 | 230 | 5000 |
| 2012004 | 25/24 | 0.54 | 285 | 5000 |
| 2012005 | 50/24 | 0.67 | 375 | 5000 |
| 2012006 | 100/24 | 0.90 | 560 | 5000 |

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Core Construction:

Conductors:

- Solid, annealed copper; sizes 19, 22 and 24 AWG

Insulation:

- Solid, high density polyethylene, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

Figure 8 Sheath:

Aluminum Shield:

- Corrugated, copolymer coated, 0.008" aluminum tape applied longitudinally with an overlap

Support Messenger:

- A 1/4", 7 strand, extra high strength galvanized steel wire, fully flooded for corrosion protection

Jacket:

- Black, linear low density polyethylene is jacketed in an integral extrusion with the shielded core and support messenger to form a "Figure 8" configuration

Application(s):

- Intended for aerial installation

Compliance:

- RDUP (RUS) Specification PE-38

Packaging:

- Standard lengths are shipped on non-returnable wood reels
- Non-standard packaging is available upon request

Air Core ALPETH Cable

Spec. 2101

BELL SYSTEM TYPE BHBA (19 AWG) BKMA (24 AWG)
BHAA (22 AWG) BKTA (26 AWG)

Core Construction:

Conductors:

- Solid, annealed copper; sizes 19, 22, 24 and 26 AWG

Insulation:

- Solid, high density polyethylene, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder
- 1200 pairs and larger are mirror image color code

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

ALPETH Sheath:

Aluminum Shield:

- Corrugated 0.008" aluminum tape applied longitudinally with an overlap

Jacket:

- Black, linear low density polyethylene

Application(s):

- Intended for aerial installation by attachment to a support strand

Compliance:

- Telcordia (Bellcore) Specification GR-421-CORE

Packaging:

- Standard lengths are shipped on returnable steel reels or on non-returnable wood reels when requested
- Non-standard packaging is also available



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 7506967 | 25/19 | 0.79 | 320 | 5000 |
| 7506975 | 50/19 | 1.10 | 595 | 3000 |
| 7506983 | 100/19 | 1.50 | 1110 | 3000 |
| 7506991 | 200/19 | 1.90 | 2150 | 1000 |
| 7510506 | 300/19 | 2.40 | 3190 | 1000 |
| 7506876 | 25/22 | 0.61 | 185 | 5000 |
| 7506884 | 50/22 | 0.79 | 320 | 3000 |
| 7506892 | 100/22 | 1.10 | 595 | 3000 |
| 6968770 | 200/22 | 1.50 | 1120 | 3000 |
| 7506900 | 300/22 | 1.70 | 1650 | 1000 |
| 6968762 | 400/22 | 1.90 | 2170 | 1000 |
| 6987275 | 600/22 | 2.30 | 3220 | 1000 |
| 6937817 | 900/22 | 2.80 | 4760 | 700 |
| 7506918 | 25/24 | 0.52 | 130 | 5000 |
| 7506926 | 50/24 | 0.65 | 220 | 3000 |
| 6937064 | 100/24 | 0.86 | 395 | 3000 |
| 6964803 | 200/24 | 1.10 | 735 | 1000 |
| 6964811 | 300/24 | 1.40 | 1070 | 1000 |
| 6964795 | 400/24 | 1.50 | 1400 | 1000 |
| 6964787 | 600/24 | 1.90 | 2080 | 1000 |
| 6983381 | 900/24 | 2.20 | 3050 | 1000 |
| 6937833 | 1200/24 | 2.50 | 4050 | 1000 |
| 7506777 | 1500/24 | 2.80 | 5020 | 800 |
| 6937841 | 1800/24 | 3.10 | 5990 | 800 |
| 7503485 | 400/26 | 1.30 | 905 | 1000 |
| 6987218 | 600/26 | 1.50 | 1320 | 1000 |
| 7508252 | 900/26 | 1.80 | 1970 | 1000 |
| 6937858 | 1200/26 | 2.10 | 2600 | 1000 |
| 6937866 | 1500/26 | 2.30 | 3220 | 1000 |
| 7506785 | 1800/26 | 2.50 | 3840 | 1000 |
| 6937767 | 2100/26 | 2.70 | 4460 | 1000 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Figure 8 Air Core ALPETH Cable

BELL SYSTEM TYPE BHBS (19 AWG) BKMS (24 AWG)
BHAS (22 AWG) BKTS (26 AWG)

Spec. 2102



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 7516461 | 25/19 | 0.88 | 480 | 5000 |
| 7516479 | 50/19 | 1.20 | 745 | 2500 |
| 7516487 | 25/22 | 0.70 | 345 | 5000 |
| 7516495 | 50/22 | 0.88 | 480 | 5000 |
| 7517261 | 100/22 | 1.20 | 750 | 2500 |
| 7517279 | 25/24 | 0.63 | 290 | 5000 |
| 7517287 | 50/24 | 0.76 | 380 | 5000 |
| 7517303 | 100/24 | 0.97 | 555 | 5000 |
| 7517329 | 200/24 | 1.20 | 885 | 2500 |

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Core Construction:

Conductors:

- Solid, annealed copper; sizes 19, 22, 24 and 26 AWG

Insulation:

- Solid, high density polyethylene, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

Figure 8 Alpeth Sheath:

Aluminum Shield:

- Corrugated 0.008" aluminum tape applied longitudinally with an overlap

Support Messenger:

- A 1/4", 7 strand, extra high strength galvanized steel wire, fully flooded for corrosion protection

Jacket:

- Black, linear low density polyethylene is jacketed in an integral extrusion with the shielded core and support messenger to form a "Figure 8" configuration

Application(s):

- Intended for aerial installation

Compliance:

- Telcordia (Bellcore) Specification GR-421-CORE

Packaging:

- Standard lengths are shipped on returnable steel reels or on non-returnable wood reels when requested
- Non-standard packaging is also available

Figure 8 Air Core ALPETH-GP Cable

Spec. 2108

BELL SYSTEM TYPE BHBP (19 AWG) BKMP (24 AWG)
BHAP (22 AWG) BKTP (26 AWG)

Core Construction:

Conductors:

- Solid, annealed copper; sizes 19, 22, 24 and 26 AWG

Insulation:

- Solid, high density polyethylene, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

Figure 8 ALPETH-GP Sheath:

Aluminum Shield:

- Corrugated, 0.008" aluminum tape applied longitudinally with an overlap

First Jacket:

- Black, linear low density polyethylene jacket over the aluminum tape

Steel Tape:

- Corrugated, 0.006" steel tape flooded on both sides applied longitudinally over the first jacket with an overlap

Support Messenger:

- A 1/4", 7 strand, extra high strength galvanized steel wire, fully flooded for corrosion protection

Outer Jacket:

- Black, linear low density polyethylene is applied in an integral extrusion over the steel tape and support messenger to form a "Figure 8" configuration

Application(s):

- Intended for aerial installation where additional mechanical protection is required

Compliance:

- Telcordia (Bellcore) Specification GR-421-CORE

Packaging:

- Standard lengths are shipped on returnable steel reels or on non-returnable wood reels when requested
- Non-standard packaging is also available



Nominal Cable Data

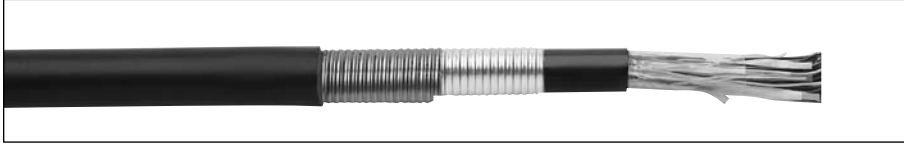
| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 7517394 | 25/19 | 1.10 | 675 | 5000 |
| 7517402 | 50/19 | 1.40 | 1000 | 2500 |
| 7517410 | 25/22 | 0.95 | 505 | 5000 |
| 7517428 | 50/22 | 1.10 | 680 | 5000 |
| 7517444 | 100/22 | 1.40 | 1010 | 2500 |
| 7517451 | 25/24 | 0.88 | 440 | 5000 |
| 7517469 | 50/24 | 1.00 | 555 | 5000 |
| 7517485 | 100/24 | 1.20 | 775 | 5000 |
| 7517501 | 200/24 | 1.50 | 1160 | 2500 |
| 2018023 | 300/24 | 1.70 | 1585 | 2500 |

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Air Core Bonded PASP Cable

BELL SYSTEM TYPE BHBH (19 AWG) BKMH (24 AWG)
BHAH (22 AWG) BKTH (26 AWG)

Spec. 2107



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 7502180 | 25/19 | 0.90 | 440 | 5000 |
| 7502198 | 50/19 | 1.20 | 750 | 3000 |
| 7502214 | 100/19 | 1.60 | 1365 | 3000 |
| 7502230 | 200/19 | 2.10 | 2475 | 1000 |
| 7502248 | 300/19 | 2.50 | 3640 | 1000 |
| 7503543 | 25/22 | 0.72 | 280 | 5000 |
| 7503550 | 50/22 | 0.90 | 445 | 3000 |
| 7503576 | 100/22 | 1.20 | 750 | 3000 |
| 7503592 | 200/22 | 1.60 | 1360 | 1000 |
| 7503600 | 300/22 | 1.80 | 1940 | 1000 |
| 7503618 | 400/22 | 2.10 | 2500 | 1000 |
| 7503626 | 600/22 | 2.50 | 3665 | 1000 |
| 7503634 | 900/22 | 3.00 | 5280 | 700 |
| 7503659 | 25/24 | 0.64 | 205 | 5000 |
| 7503667 | 50/24 | 0.77 | 320 | 3000 |
| 7503683 | 100/24 | 0.98 | 525 | 3000 |
| 7503709 | 200/24 | 1.30 | 905 | 1000 |
| 7503717 | 300/24 | 1.50 | 1285 | 1000 |
| 7503725 | 400/24 | 1.70 | 1675 | 1000 |
| 7502073 | 600/24 | 2.00 | 2410 | 1000 |
| 7502040 | 900/24 | 2.40 | 3465 | 1000 |
| 7502081 | 1200/24 | 2.70 | 4550 | 900 |
| 7502065 | 1500/24 | 3.00 | 5580 | 900 |
| 7502057 | 1800/24 | 3.30 | 6595 | 800 |
| 7503816 | 400/26 | 1.40 | 1100 | 1000 |
| 7502024 | 600/26 | 1.70 | 1605 | 1000 |
| 7502032 | 900/26 | 2.00 | 2300 | 1000 |
| 7502099 | 1200/26 | 2.20 | 2985 | 1000 |
| 7503824 | 1500/26 | 2.40 | 3655 | 1000 |
| 7503832 | 1800/26 | 2.60 | 4325 | 1000 |
| 7503840 | 2100/26 | 2.80 | 4960 | 900 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Core Construction:

Conductors:

- Solid, annealed copper; sizes 19, 22, 24 and 26 AWG

Insulation:

- Solid, high density polyethylene, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder
- 1200 pairs and larger are mirror image color code

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

Bonded PASP Sheath:

Inner Jacket:

- Black, linear low density polyethylene jacket over the core wrap

Aluminum Shield:

- Corrugated, 0.008" aluminum tape applied longitudinally

Steel Shield:

- Corrugated, copolymer coated, 0.006" steel tape applied longitudinally over the aluminum tape with an overlap

Outer Jacket:

- Black, linear low density polyethylene jacket bonded to the coated steel

Application(s):

- Intended for pressurized direct buried installation in situations in which resistance to lightning and mechanical damage is required

Compliance:

- Telcordia (Bellcore) Specification GR-421-CORE

Packaging:

- Standard lengths are shipped on returnable steel reels or on non-returnable wood reels when requested
- Non-standard packaging is also available

Air Core Foam Skin Bonded STALPETH Cable

Spec. 2106

BELL SYSTEM TYPE DCAZ (22 AWG) DCTZ (26 AWG)
DCMZ (24 AWG)

Core Construction:

Conductors:

- Solid, annealed copper; sizes 22, 24 and 26 AWG

Insulation:

- Dual insulation consisting of an inner layer of foamed polyolefin surrounded by a solid polyolefin skin, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 3600 pairs and less: made up of 100 pair super-units consisting of four (4) 25 pair sub-units
- 4200 pair design: made up of 300 pair super-units consisting of twelve (12) 25 pair sub-units
- Each group is individually identifiable by color-coded unit binders
- All sizes are mirror image color code

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

Bonded STALPETH Sheath:

Aluminum Shield:

- Corrugated, 0.008" aluminum tape applied longitudinally

Steel Shield:

- Corrugated, copolymer coated, 0.006" steel tape applied longitudinally over the aluminum tape with an overlap

Outer Jacket:

- Black, linear low density polyethylene jacket bonded to the coated steel

Application(s):

- Intended for pressurized urban underground duct installation
- Designed for large pair-count subscriber-serving cables leaving Central Offices where duct congestion is a prime concern

Compliance:

- Telcordia (Bellcore) Specification GR-421-CORE

Packaging:

- Standard lengths are shipped on returnable steel reels or on non-returnable wood reels when requested
- Non-standard packaging is also available



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 2010083 | 900/22 | 2.5 | 4570 | 1000 |
| 2010084 | 1200/22 | 2.9 | 6030 | 1000 |
| 2010078 | 600/24 | 1.7 | 2020 | 1000 |
| 2010079 | 900/24 | 2.1 | 2960 | 1000 |
| 7516438 | 1200/24 | 2.3 | 3880 | 1000 |
| 7510712 | 1500/24 | 2.5 | 4800 | 1000 |
| 7502008 | 1800/24 | 2.8 | 5700 | 1000 |
| 7502107 | 2100/24 | 2.9 | 6590 | 1000 |
| 7510720 | 2400/24 | 3.2 | 7500 | 1000 |
| 2010080 | 600/26 | 1.4 | 1340 | 1000 |
| 7512510 | 900/26 | 1.7 | 1940 | 1000 |
| 6987374 | 1200/26 | 1.9 | 2530 | 1000 |
| 7513351 | 1500/26 | 2.1 | 3120 | 1000 |
| 6987382 | 1800/26 | 2.2 | 3690 | 1000 |
| 7513252 | 2100/26 | 2.4 | 4270 | 1000 |
| 6987390 | 2400/26 | 2.5 | 4830 | 1000 |
| 2010081 | 2700/26 | 2.7 | 5410 | 1000 |
| 6987408 | 3000/26 | 2.8 | 5980 | 1000 |
| 6987416 | 3600/26 | 3.1 | 7120 | 1000 |
| 6987424 | 4200/26 | 3.3 | 8250 | 1000 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Foam Skin ALVYN Riser For Voice & Digital Transmission Type CMR

Spec. 2507

BELL SYSTEM TYPE: ARMM (24 AWG)
ARTM (26 AWG)



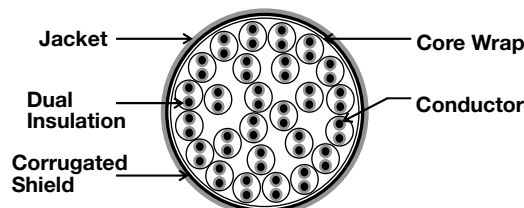
Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 2019000 | 25/24 | 0.53 | 142 | 5000 |
| 2019001 | 50/24 | 0.66 | 234 | 5000 |
| 7507601 | 100/24 | 0.85 | 410 | 5000 |
| 7507619 | 200/24 | 1.20 | 760 | 2500 |
| 7507627 | 300/24 | 1.40 | 1105 | 2500 |
| 7507635 | 400/24 | 1.50 | 1445 | 2500 |
| 7507643 | 600/24 | 1.90 | 2150 | 1250 |
| 7507650 | 900/24 | 2.20 | 3170 | 1250 |
| 7507668 | 1200/24 | 2.60 | 4185 | 1000 |
| 7515018 | 1500/24 | 2.90 | 5185 | 1000 |
| 7507676 | 1800/24 | 3.10 | 6185 | 800 |
| 2019005 | 50/26 | 0.56 | 165 | 5000 |
| 2019003 | 100/26 | 0.71 | 280 | 5000 |
| 2019004 | 200/26 | 0.92 | 495 | 5000 |
| 7507544 | 300/26 | 1.10 | 710 | 3000 |
| 7507551 | 400/26 | 1.20 | 930 | 3000 |
| 7507569 | 600/26 | 1.50 | 1365 | 1000 |
| 7507577 | 900/26 | 1.80 | 2025 | 1000 |
| 7507536 | 1200/26 | 2.00 | 2665 | 1000 |
| 7515026 | 1500/26 | 2.20 | 3285 | 1000 |
| 7507585 | 1800/26 | 2.40 | 3915 | 1000 |
| 7515034 | 2100/26 | 2.60 | 4540 | 1000 |
| 7507502 | 2400/26 | 2.80 | 5160 | 1000 |
| 7507510 | 2700/26 | 3.00 | 5790 | 900 |
| 7507593 | 3000/26 | 3.10 | 6410 | 900 |
| 7507528 | 3600/26 | 3.40 | 7650 | 800 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Electrical Characteristics

| | 24 AWG | 26 AWG | Frequency | Attenuation dB/100m (max) | NEXT dB |
|---|--------|--------|-----------|---------------------------|---------|
| DC Resistance (max) Ohms/1000ft @ 20°C | 27.3 | 43.9 | 0.772 MHz | 2.2 | 43 |
| Mutual Capacitance (nom) NF/mile @ 1 kHz | 83 | 83 | 1 MHz | 2.6 | 41 |
| | | | 4 MHz | 5.6 | 32 |
| | | | 8 MHz | 8.5 | 28 |
| | | | 10 MHz | 9.7 | 26 |
| | | | 16 MHz | 13.1 | 23 |



Product Construction

Conductors:

- 24 and 26 AWG solid bare annealed copper

Insulation:

- Dual insulation consisting of an inner layer of foamed polyolefin surrounded by a solid PVC skin
- 22 AWG
 - Primary insulation, Nominal O.D. = 0.039"
 - Secondary insulation, Nominal O.D. = 0.044"
- 24 AWG
 - Primary insulation, Nominal O.D. = 0.031"
 - Secondary insulation, Nominal O.D. = 0.035"
- 26 AWG
 - Primary insulation, Nominal O.D. = 0.023"
 - Secondary insulation, Nominal O.D. = 0.027"

Color Code:

- See Color Code Chart on pages 32-33
- 1200 pairs and larger are mirror image color code

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

Shield:

- 0.008" corrugated, adhesive coated aluminum bonded to jacket

Jacket:

- Gray flame-retardant PVC jacket bonded to the coated aluminum

Applications

- Intended primarily for placement in vertical risers in buildings and may be used in general horizontal applications
- Designed for Voice and Carrier Transmission between the station protector frames and other equipment terminals

Compliances

- TIA/EIA 568B.2 (Category 3 for 24 AWG only)
- Bellcore Specification TR-TSY-000111
- UL & c(UL) Type CMR

Packaging:

- Standard lengths are shipped on returnable steel reels or on non-returnable wood reels when requested
- ARAM (22 AWG) is available upon request



Filled Core Cables

2

Plastic insulated Filled Core Cables provide a broad range of pair sizes for the distribution of telecommunication signals for outside use. These cables can be installed in underground ducts and direct buried applications where protection against water and moisture entry is required and may also be installed aerially.

An industry standard color-coding system provides full identification of every pair through the use of 10 different insulating colors and non-hygroscopic unit binders. Designs are available using either a solid, polyolefin insulation or foamed polyolefin with a solid polyolefin skin. The solid insulation provides a more robust Core Construction, whereas the foam skin insulation offers space saving advantages.

A variety of sheath designs are available that provide electrical shielding necessary for proper grounding and mechanical protection against rodents and other physical damage. A black, weather-resistant polyethylene jacket is used on all constructions for protection against long-term outdoor exposure.

The temperature range that Telecommunications cable can withstand is:

For storage and operation:
-45°C to 80°C
-49°F to 176°F

For installation:
-30°C to 60°C
-22°F to 140°F

All cables are equipped with surface-printed identification and sequential footage markings.

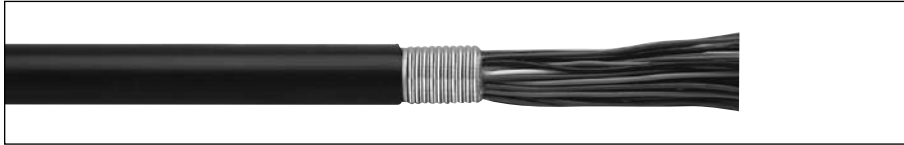
The cable design for 19, 22 and 24 AWG sizes has the transmission performance capability of 100Ω, Category 3 Backbone UTP Cables specified in TIA/EIA-568-B.

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Filled Solid Cable

RDUP (RUS) PE-39 AL

Spec. 2002

**Nominal Cable Data**

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 7524507 | 6/19 | 0.60 | 150 | 5000 |
| 7524515 | 12/19 | 0.75 | 275 | 5000 |
| 7524523 | 25/19 | 0.97 | 490 | 5000 |
| 7524531 | 50/19 | 1.30 | 910 | 2500 |
| 7524556 | 6/22 | 0.45 | 95 | 5000 |
| 7524564 | 12/22 | 0.56 | 155 | 5000 |
| 7524572 | 25/22 | 0.71 | 260 | 5000 |
| 7524580 | 50/22 | 0.95 | 475 | 5000 |
| 7524598 | 100/22 | 1.20 | 840 | 2500 |
| 7524606 | 200/22 | 1.70 | 1610 | 2500 |
| 7524929 | 300/22 | 2.00 | 2360 | 1250 |
| 7524614 | 6/24 | 0.43 | 80 | 5000 |
| 7524622 | 12/24 | 0.51 | 120 | 5000 |
| 7524648 | 25/24 | 0.61 | 185 | 5000 |
| 7524655 | 50/24 | 0.81 | 330 | 5000 |
| 7524663 | 75/24 | 0.92 | 450 | 5000 |
| 7524671 | 100/24 | 1.00 | 580 | 5000 |
| 7524689 | 150/24 | 1.20 | 820 | 5000 |
| 7524697 | 200/24 | 1.30 | 1030 | 2500 |
| 7524705 | 300/24 | 1.60 | 1550 | 2500 |
| 7524713 | 400/24 | 1.90 | 2000 | 2500 |
| 7524721 | 600/24 | 2.20 | 2960 | 1250 |
| 7524739 | 900/24 | 2.70 | 4310 | 1250 |
| 7524960 | 1200/24 | 3.10 | 5750 | 1000 |
| 7524978 | 1500/24 | 3.40 | 7100 | 800 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Core Construction:**Conductors:**

- Solid, annealed copper; sizes 19, 22 and 24 AWG

Insulation:

- Solid, high density polyethylene, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder

Filling Compound:

- The entire core assembly is completely filled with ETPR compound, filling the interstices between the pairs and under the core tape

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

Sheath:**Aluminum Shield:**

- Corrugated, copolymer coated, 0.008" aluminum tape applied longitudinally with an overlap
- The sheath interfaces are flooded with an adhesive water-blocking compound

Jacket:

- Black, linear low density polyethylene

Application(s):

- Intended for duct and direct buried installations where protection against water and moisture entry is required and may also be installed aerially

Compliance:

- Rural Development Utility Program (RDUP) 7 CFR 1755.390 (RUS PE-39)

Packaging:

- Standard lengths are shipped on non-returnable wood reels
- Non-standard packaging is available upon request

Filled Solid 5-Mil Copper Cable

RDUP (RUS) PE-39 CU

Spec. 2002

Core Construction:

Conductors:

- Solid, annealed copper; sizes 19, 22 and 24 AWG

Insulation:

- Solid, high density polyethylene, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder

Filling Compound:

- The entire core assembly is completely filled with ETPR compound, filling the interstices between the pairs and under the core tape

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

Sheath:

Copper Shield:

- Corrugated 0.005" copper tape applied longitudinally with an overlap
- The sheath interfaces are flooded with an adhesive water-blocking compound

Jacket:

- Black, linear low density polyethylene

Application(s):

- Intended for duct and direct buried installations where protection against water and moisture entry is required and may also be installed aerially

Compliance:

- Rural Development Utility Program (RDUP) 7 CFR 1755.390 (RUS PE-39)

Packaging:

- Standard lengths are shipped on non-returnable wood reels
- Non-standard packaging is available upon request



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 7525009 | 6/19 | 0.60 | 170 | 5000 |
| 7525017 | 12/19 | 0.75 | 300 | 5000 |
| 7525025 | 25/19 | 0.97 | 525 | 5000 |
| 7525033 | 50/19 | 1.30 | 960 | 2500 |
| 7525058 | 6/22 | 0.45 | 105 | 5000 |
| 7525066 | 12/22 | 0.56 | 170 | 5000 |
| 7525074 | 25/22 | 0.71 | 285 | 5000 |
| 7525082 | 50/22 | 0.95 | 505 | 5000 |
| 7528573 | 75/22 | 1.10 | 715 | 5000 |
| 7525090 | 100/22 | 1.20 | 885 | 2500 |
| 7528581 | 150/22 | 1.40 | 1260 | 2500 |
| 7525108 | 200/22 | 1.70 | 1670 | 2500 |
| 7528599 | 300/22 | 2.00 | 2440 | 1250 |
| 7528607 | 400/22 | 2.30 | 3200 | 1250 |
| 7525116 | 6/24 | 0.43 | 95 | 5000 |
| 7525124 | 12/24 | 0.51 | 135 | 5000 |
| 7525140 | 25/24 | 0.61 | 200 | 5000 |
| 7525157 | 50/24 | 0.81 | 355 | 5000 |
| 7525165 | 75/24 | 0.92 | 475 | 5000 |
| 7525173 | 100/24 | 1.00 | 610 | 5000 |
| 7525181 | 150/24 | 1.20 | 855 | 5000 |
| 7525199 | 200/24 | 1.30 | 1070 | 2500 |
| 7525207 | 300/24 | 1.60 | 1610 | 2500 |
| 7525215 | 400/24 | 1.90 | 2070 | 2500 |
| 7525223 | 600/24 | 2.20 | 3040 | 1250 |
| 7525231 | 900/24 | 2.70 | 4440 | 1250 |
| 7528631 | 1200/24 | 3.10 | 5890 | 1000 |
| 7528649 | 1500/24 | 3.40 | 7230 | 800 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Filled Solid Copper-Bearing Gopher-Resistant Cable Spec. 2002

RDUP (RUS) PE-39 GR



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 7528755 | 6/19 | 0.60 | 165 | 5000 |
| 7528763 | 12/19 | 0.75 | 315 | 5000 |
| 7528789 | 25/19 | 0.97 | 540 | 5000 |
| 7528797 | 50/19 | 1.30 | 980 | 2500 |
| 7528003 | 6/22 | 0.45 | 105 | 5000 |
| 7528011 | 12/22 | 0.56 | 170 | 5000 |
| 7528029 | 18/22 | 0.66 | 245 | 5000 |
| 7528037 | 25/22 | 0.71 | 290 | 5000 |
| 7528045 | 50/22 | 0.95 | 520 | 5000 |
| 7528052 | 75/22 | 1.10 | 730 | 5000 |
| 7528060 | 100/22 | 1.20 | 900 | 2500 |
| 7528078 | 150/22 | 1.40 | 1280 | 2500 |
| 7528086 | 200/22 | 1.70 | 1700 | 2500 |
| 7528094 | 300/22 | 2.00 | 2470 | 1250 |
| 7528854 | 400/22 | 2.30 | 3240 | 1250 |
| 7528102 | 6/24 | 0.43 | 95 | 5000 |
| 7528110 | 12/24 | 0.51 | 135 | 5000 |
| 7528128 | 18/24 | 0.57 | 175 | 5000 |
| 7528136 | 25/24 | 0.61 | 215 | 5000 |
| 7528144 | 50/24 | 0.81 | 375 | 5000 |
| 7528151 | 75/24 | 0.92 | 495 | 5000 |
| 7528169 | 100/24 | 1.00 | 630 | 5000 |
| 7528177 | 150/24 | 1.20 | 885 | 5000 |
| 7528185 | 200/24 | 1.30 | 1100 | 2500 |
| 7528193 | 300/24 | 1.60 | 1640 | 2500 |
| 7528201 | 400/24 | 1.90 | 2110 | 2500 |
| 7528219 | 600/24 | 2.20 | 3080 | 1250 |
| 7528227 | 900/24 | 2.70 | 4480 | 1250 |
| 7528235 | 1200/24 | 3.10 | 5950 | 1000 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Core Construction:

Conductors:

- Solid, annealed copper; sizes 19, 22 and 24 AWG

Insulation:

- Solid, high density polyethylene, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder

Filling Compound:

- The entire core assembly is completely filled with ETPR compound, filling the interstices between the pairs and under the core tape

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

Sheath:

Copper-Bearing Shield:

- Corrugated, copper-bearing gopher-resistant tape applied longitudinally with an overlap
- The sheath interfaces are flooded with an adhesive water-blocking compound

Jacket:

- Black, linear low density polyethylene

Application(s):

- Intended for duct and direct buried installations where protection against water and moisture entry is required and may also be installed aerially
- The copper-bearing tape provides increased mechanical protection and gopher resistance

Compliance:

- Rural Development Utility Program (RDUP) 7 CFR 1755.390 (RUS PE-39)

Packaging:

- Standard lengths are shipped on non-returnable wood reels
- Non-standard packaging is available upon request

Filled Solid CACSP Cable

RDUP (RUS) PE-39 CACSP

Spec. 2002

Core Construction:

Conductors:

- Solid, annealed copper; sizes 19, 22 and 24 AWG

Insulation:

- Solid, high density polyethylene, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder

Filling Compound:

- The entire core assembly is completely filled with ETPR compound, filling the interstices between the pairs and under the core tape

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

CACSP Sheath:

Aluminum Shield:

- Corrugated, copolymer-coated, 0.008" aluminum tape applied longitudinally over the core wrap

Steel Shield:

- Corrugated, copolymer-coated, 0.006" steel tape applied longitudinally over the aluminum tape with an overlap
- The sheath interfaces are flooded with an adhesive water-blocking compound

Jacket:

- Black, linear low density polyethylene

Application(s):

- Intended for duct and direct buried installations where protection against water and moisture entry is required and may also be installed aerially
- The addition of the steel tape armor provides increased mechanical protection and gopher resistance

Compliance:

- Rural Development Utility Program (RDUP) 7 CFR 1755.390 (RUS PE-39)

Packaging:

- Standard lengths are shipped on non-returnable wood reels
- Non-standard packaging is available upon request



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 7529647 | 6/19 | 0.60 | 185 | 5000 |
| 7529654 | 12/19 | 0.75 | 325 | 5000 |
| 7529670 | 25/19 | 0.97 | 555 | 5000 |
| 7529688 | 50/19 | 1.30 | 1000 | 2500 |
| 7529746 | 6/22 | 0.45 | 120 | 5000 |
| 7529753 | 12/22 | 0.56 | 185 | 5000 |
| 7529779 | 25/22 | 0.71 | 305 | 5000 |
| 7529787 | 50/22 | 0.95 | 540 | 5000 |
| 7529878 | 6/24 | 0.43 | 105 | 5000 |
| 7529886 | 12/24 | 0.51 | 150 | 5000 |
| 7529902 | 25/24 | 0.61 | 220 | 5000 |
| 7529910 | 50/24 | 0.81 | 385 | 5000 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Filled Foam Skin Cable

RDUP (RUS) PE-89 AL

Spec. 2007



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 7525504 | 6/19 | 0.57 | 155 | 5000 |
| 7525512 | 12/19 | 0.66 | 230 | 5000 |
| 7525538 | 25/19 | 0.87 | 415 | 5000 |
| 7525595 | 6/22 | 0.47 | 100 | 5000 |
| 7525603 | 12/22 | 0.54 | 140 | 5000 |
| 7525629 | 25/22 | 0.65 | 230 | 5000 |
| 7525637 | 50/22 | 0.83 | 400 | 5000 |
| 7525652 | 100/22 | 1.10 | 725 | 2500 |
| 7525678 | 200/22 | 1.40 | 1330 | 2500 |
| 7525686 | 300/22 | 1.70 | 1950 | 1250 |
| 7525694 | 400/22 | 2.00 | 2570 | 1250 |
| 7525702 | 600/22 | 2.40 | 3900 | 1250 |
| 7525751 | 6/24 | 0.40 | 70 | 5000 |
| 7525769 | 12/24 | 0.46 | 100 | 5000 |
| 7525785 | 25/24 | 0.59 | 175 | 5000 |
| 7525793 | 50/24 | 0.72 | 290 | 5000 |
| 7525819 | 100/24 | 0.90 | 490 | 5000 |
| 7525827 | 150/24 | 1.10 | 690 | 5000 |
| 7525835 | 200/24 | 1.20 | 900 | 2500 |
| 7525843 | 300/24 | 1.40 | 1290 | 2500 |
| 7525850 | 400/24 | 1.60 | 1700 | 2500 |
| 7525868 | 600/24 | 1.90 | 2440 | 1250 |
| 7525876 | 900/24 | 2.30 | 3620 | 1250 |
| 7526973 | 1200/24 | 2.60 | 4720 | 1000 |
| 7526981 | 1500/24 | 2.90 | 5850 | 1000 |
| 7526999 | 1800/24 | 3.20 | 7040 | 1000 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Core Construction:

Conductors:

- Solid, annealed copper; sizes 19, 22 and 24 AWG

Insulation:

- Dual insulation consisting of an inner layer of foamed polyolefin surrounded by a solid polyolefin skin, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder

Filling Compound:

- The entire core assembly is completely filled with ETPR compound, filling the interstices between the pairs and under the core tape

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

Sheath:

Aluminum Shield:

- Corrugated, copolymer-coated, 0.008" aluminum tape applied longitudinally with an overlap
- The sheath interfaces are flooded with an adhesive water-blocking compound

Jacket:

- Black, linear low density polyethylene

Application(s):

- Intended for duct and direct buried installations where protection against water and moisture entry is required and may also be installed aerially

Compliance:

- Rural Development Utility Program (RDUP) 7 CFR 1755.890 (RUS PE-89)

Packaging:

- Standard lengths are shipped on non-returnable wood reels
- Non-standard packaging is available upon request

Filled Foam Skin CACSP Cable

Spec. 2007

RDUP (RUS) PE-89 CACSP

Core Construction:

Conductors:

- Solid, annealed copper; sizes 22 and 24 AWG

Insulation:

- Dual insulation consisting of an inner layer of foamed polyolefin surrounded by a solid polyolefin skin, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder

Filling Compound:

- The entire core assembly is completely filled with ETPR compound, filling the interstices between the pairs and under the core tape

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

CACSP Sheath:

Aluminum Shield:

- Corrugated, copolymer-coated, 0.008" aluminum tape applied longitudinally over the core wrap

Steel Shield:

- Corrugated, copolymer-coated, 0.006" steel tape applied longitudinally over the aluminum tape with an overlap
- The sheath interfaces are flooded with an adhesive water-blocking compound

Jacket:

- Black, linear low density polyethylene

Application(s):

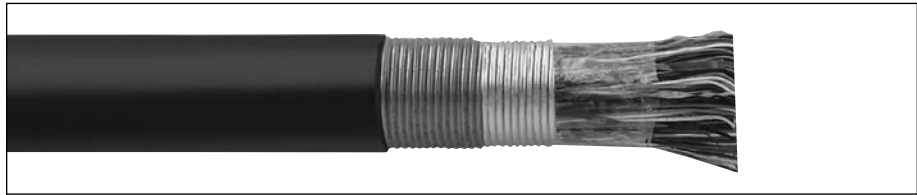
- Intended for duct and direct buried installations where protection against water and moisture entry is required and may also be installed aerially
- The addition of the steel tape armor provides increased mechanical protection and gopher resistance

Compliance:

- Rural Development Utility Program (RDUP) 7 CFR 1755.890 (RUS PE-89)

Packaging:

- Standard lengths are shipped on non-returnable wood reels
- Non-standard packaging is available upon request



Nominal Cable Data

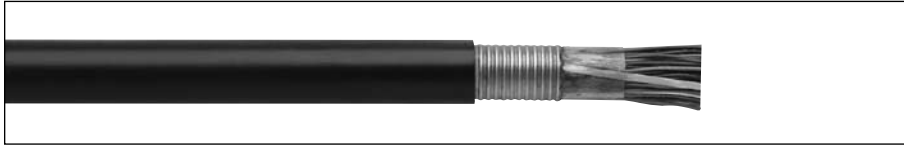
| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 7526551 | 6/22 | 0.47 | 125 | 5000 |
| 7526569 | 12/22 | 0.54 | 180 | 5000 |
| 7526577 | 25/22 | 0.65 | 280 | 5000 |
| 7526585 | 50/22 | 0.83 | 465 | 5000 |
| 7526601 | 100/22 | 1.10 | 790 | 2500 |
| 7526619 | 200/22 | 1.40 | 1430 | 2500 |
| 7526627 | 300/22 | 1.70 | 2050 | 1250 |
| 7071608 | 6/24 | 0.40 | 90 | 5000 |
| 7526668 | 12/24 | 0.46 | 125 | 5000 |
| 7526684 | 25/24 | 0.60 | 210 | 5000 |
| 7526692 | 50/24 | 0.72 | 330 | 5000 |
| 7526718 | 100/24 | 0.90 | 550 | 5000 |
| 7526726 | 150/24 | 1.10 | 750 | 5000 |
| 7526734 | 200/24 | 1.20 | 980 | 2500 |
| 7526742 | 300/24 | 1.40 | 1370 | 2500 |
| 7526759 | 400/24 | 1.60 | 1800 | 2500 |
| 7526767 | 600/24 | 1.90 | 2590 | 1250 |
| 7526775 | 900/24 | 2.30 | 3790 | 1250 |
| 7071616 | 1200/24 | 2.60 | 4920 | 1000 |
| 7071624 | 1500/24 | 2.90 | 6110 | 1000 |
| 7071632 | 1800/24 | 3.20 | 7280 | 1000 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Filled Foam Skin ALPETH Cable

BELL SYSTEM TYPE ANBA (19 AWG) ANMA (24 AWG)
ANAA (22 AWG) ANTA (26 AWG)

Spec. 2111



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 2036300 | 25/19 | 0.86 | 415 | 5000 |
| 2036301 | 50/19 | 1.10 | 760 | 2500 |
| 2036302 | 100/19 | 1.50 | 1365 | 2500 |
| 2036303 | 200/19 | 2.00 | 2650 | 1250 |
| 2036304 | 300/19 | 2.40 | 3850 | 1250 |
| 2036307 | 25/22 | 0.64 | 225 | 5000 |
| 2036308 | 50/22 | 0.82 | 395 | 5000 |
| 2036309 | 100/22 | 1.10 | 730 | 2500 |
| 2036310 | 200/22 | 1.40 | 1305 | 2500 |
| 2036311 | 300/22 | 1.70 | 1985 | 1250 |
| 2036312 | 400/22 | 2.00 | 2580 | 1250 |
| 2036313 | 600/22 | 2.40 | 3910 | 1250 |
| 2036314 | 900/22 | 3.00 | 5855 | 1000 |
| 2036320 | 25/24 | 0.59 | 170 | 5000 |
| 2036321 | 50/24 | 0.72 | 280 | 5000 |
| 2036322 | 100/24 | 0.90 | 485 | 5000 |
| 2036323 | 200/24 | 1.20 | 895 | 2500 |
| 2036324 | 300/24 | 1.40 | 1275 | 2500 |
| 2036325 | 400/24 | 1.60 | 1675 | 2500 |
| 2036326 | 600/24 | 1.90 | 2460 | 1250 |
| 2036327 | 900/24 | 2.30 | 3640 | 1250 |
| 2036328 | 1200/24 | 2.60 | 4780 | 1000 |
| 2036329 | 1500/24 | 2.90 | 6025 | 1000 |
| 2036330 | 1800/24 | 3.20 | 7260 | 1000 |
| 2036331 | 2100/24 | 3.50 | 8420 | 750 |
| 2036334 | 25/26 | 0.49 | 120 | 5000 |
| 2036335 | 50/26 | 0.61 | 165 | 5000 |
| 2036336 | 100/26 | 0.78 | 340 | 5000 |
| 2036337 | 200/26 | 0.96 | 575 | 5000 |
| 2036338 | 300/26 | 1.20 | 860 | 2500 |
| 2036339 | 400/26 | 1.30 | 1090 | 2500 |
| 2036340 | 600/26 | 1.60 | 1600 | 1250 |
| 2036341 | 900/26 | 1.90 | 2355 | 1250 |
| 2036342 | 1200/26 | 2.10 | 3095 | 1250 |
| 2036343 | 1500/26 | 2.40 | 3870 | 1250 |
| 2036344 | 1800/26 | 2.60 | 4540 | 1000 |
| 2036345 | 2100/26 | 2.90 | 5475 | 1000 |
| 2036346 | 2400/26 | 3.00 | 6120 | 1000 |

Core Construction:

Conductors:

- Solid, annealed copper; sizes 19, 22, 24 and 26 AWG

Insulation:

- Dual insulation consisting of an inner layer of foamed polyolefin surrounded by a solid polyolefin skin, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder
- 1200 pairs and larger are mirror image color code

Filling Compound:

- The entire core assembly is completely filled with ETPR compound, filling the interstices between the pairs and under the core tape

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

Sheath:

Aluminum Shield:

- Corrugated, 0.008" aluminum tape applied longitudinally with an overlap
- The sheath interfaces are flooded with an adhesive water-blocking compound

Jacket:

- Black, linear low density polyethylene

Application(s):

- Intended for duct and direct buried installations where protection against water and moisture entry is required and may also be installed aerially

Compliance:

- Telcordia (Bellcore) Specification GR-421-CORE

Packaging:

- Standard lengths are shipped on returnable steel reels or on non-returnable wood reels when requested
- Non-standard packaging is also available

Filled Foam Skin ASP Cable

Spec. 2100

BELL SYSTEM TYPE ANBW (19 AWG) ANMW (24 AWG)
ANAW (22 AWG) ANTW (26 AWG)

Core Construction:

Conductors:

- Solid, annealed copper; sizes 19, 22, 24 and 26 AWG

Insulation:

- Dual insulation consisting of an inner layer of foamed polyolefin surrounded by a solid polyolefin skin, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- 25 pairs and less: pairs are assembled together in a single group
- More than 25 pairs: pairs are arranged in groups, each group having a color-coded unit binder
- 1200 pairs and larger are mirror image color code

Filling Compound:

- The entire core assembly is completely filled with ETPR compound, filling the interstices between the pairs and under the core tape

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

ASP Sheath:

Aluminum Shield:

- Corrugated, 0.008" aluminum tape applied longitudinally over the core wrap

Steel Shield:

- Corrugated, 0.006" steel tape applied longitudinally over the aluminum tape with an overlap
- The sheath interfaces are flooded with an adhesive water-blocking compound

Jacket:

- Black, linear low density polyethylene

Application(s):

- Intended for duct and direct buried installations where protection against water and moisture entry is required and may also be installed aerially

Compliance:

- Telcordia (Bellcore) Specification GR-421-CORE

Packaging:

- Standard lengths are shipped on returnable steel reels or on non-returnable wood reels when requested
- Non-standard packaging is also available



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 6987481 | 25/19 | 0.86 | 465 | 5000 |
| 6987499 | 50/19 | 1.10 | 825 | 2500 |
| 6987507 | 100/19 | 1.50 | 1450 | 2500 |
| 6987515 | 200/19 | 2.00 | 2780 | 1250 |
| 6987523 | 300/19 | 2.40 | 4005 | 1250 |
| 6987572 | 25/22 | 0.70 | 280 | 5000 |
| 6987580 | 50/22 | 0.86 | 465 | 5000 |
| 6987606 | 100/22 | 1.10 | 790 | 2550 |
| 6987622 | 200/22 | 1.40 | 1410 | 2550 |
| 6987630 | 300/22 | 1.70 | 2060 | 1250 |
| 6987648 | 400/22 | 2.00 | 2710 | 1250 |
| 6987655 | 600/22 | 2.40 | 4050 | 1250 |
| 6987663 | 900/22 | 2.90 | 5900 | 1000 |
| 6987671 | 1200/22 | 3.30 | 7740 | 750 |
| 6987705 | 25/24 | 0.57 | 205 | 5000 |
| 6987713 | 50/24 | 0.74 | 320 | 5000 |
| 6987721 | 100/24 | 0.91 | 535 | 5000 |
| 6987739 | 200/24 | 1.20 | 955 | 2500 |
| 6987747 | 300/24 | 1.40 | 1350 | 2500 |
| 6987754 | 400/24 | 1.60 | 1775 | 2500 |
| 6987762 | 600/24 | 1.90 | 2570 | 1250 |
| 6987770 | 900/24 | 2.30 | 3770 | 1250 |
| 6987788 | 1200/24 | 2.60 | 4920 | 1000 |
| 6987796 | 1500/24 | 2.90 | 6060 | 1000 |
| 6987804 | 1800/24 | 3.20 | 7270 | 1000 |
| 6987812 | 25/26 | 0.50 | 150 | 5000 |
| 6987820 | 50/26 | 0.61 | 230 | 5000 |
| 6987838 | 100/26 | 0.80 | 395 | 5000 |
| 6987846 | 200/26 | 1.00 | 670 | 5000 |
| 6987853 | 300/26 | 1.20 | 940 | 2500 |
| 6987861 | 400/26 | 1.30 | 1235 | 2500 |
| 6987879 | 600/26 | 1.60 | 1710 | 1250 |
| 6987887 | 900/26 | 1.90 | 2475 | 1250 |
| 6987895 | 1200/26 | 2.10 | 3220 | 1250 |
| 7507007 | 1500/26 | 2.40 | 4010 | 1250 |
| 7507015 | 1800/26 | 2.60 | 4685 | 1000 |
| 7502958 | 2100/26 | 2.80 | 5500 | 1000 |
| 7507023 | 2400/26 | 2.90 | 6160 | 1000 |
| 7512650 | 2700/26 | 3.20 | 7010 | 1000 |
| 7512668 | 3000/26 | 3.30 | 7610 | 750 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.
This design is for duct installation only.

Filled Foam Skin "S" Screened ASP Cable

BELL SYSTEM TYPE KNAW (22 AWG)
KNMW (24 AWG)

Spec. 2109-F



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 7528250 | 28/22 | 0.74 | 325 | 9000 |
| 7528268 | 54/22 | 0.92 | 515 | 9000 |
| 7528276 | 106/22 | 1.20 | 885 | 6000 |
| 7528284 | 158/22 | 1.40 | 1230 | 4500 |
| 7528292 | 210/22 | 1.60 | 1630 | 3000 |
| 7528300 | 314/22 | 1.90 | 2370 | 3000 |
| 7528318 | 418/22 | 2.10 | 2970 | 2000 |
| 7528326 | 616/22 | 2.50 | 4260 | 1500 |
| 2039061 | 28/24 | 0.62 | 235 | 9000 |
| 2039062 | 54/24 | 0.75 | 360 | 9000 |
| 2039063 | 106/24 | 0.96 | 600 | 6000 |
| 2039064 | 210/24 | 1.30 | 1075 | 4500 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Core Construction:

Conductors:

- Solid, annealed copper; size 22 and 24 AWG

Insulation:

- Dual insulation consisting of an inner layer of foamed polyolefin surrounded by a solid polyolefin skin, color-coded in accordance with telephone industry standards

Twisted Pairs:

- Insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk

Core Assembly:

- Twisted pairs are assembled into 12, 13 and 25 pair units, or into 50 pair multi-units
- Service pair units of 4 to 18 pairs are assembled for inclusion into the cable

"S" Screen:

- Each half of the cable core is separated from the other by use of a 0.004" plastic-coated aluminum screen which divides the core into two electrically isolated compartments

Filling Compound:

- The entire core assembly is completely filled with ETPR compound, filling the interstices between the pairs and under the core tape

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

ASP Sheath:

Aluminum Shield:

- Corrugated, 0.008" aluminum tape applied longitudinally over the core wrap

Steel Shield:

- Corrugated, 0.006" steel tape applied longitudinally over the aluminum tape with an overlap
- The sheath interfaces are flooded with an adhesive water-blocking compound

Jacket:

- Black, linear low density polyethylene

Application(s):

- Intended for direct buried installation
- Designed for digital two-way T-Carrier signal operation under one cable sheath

Compliance:

- Telcordia (Bellcore) Specification GR-421-CORE

Packaging:

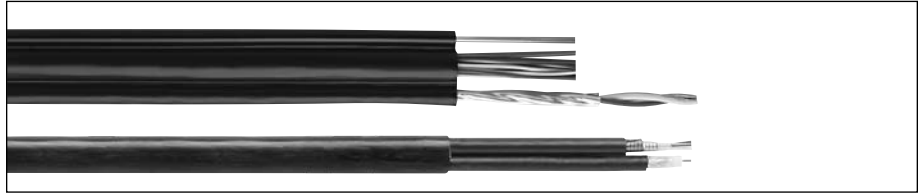
- Standard lengths are shipped on returnable steel reels or on non-returnable wood reels when requested
- Non-standard packaging is also available

Broadband Composite Wire and Cable

3

General Cable produces customized composite cables for Multimedia, Hybrid Fiber Coaxial and Digital Subscriber Line applications. These products can combine standard twisted pair copper distribution cable or service wire with coaxial cable service wire and/or fiber optic cable. These combinations may be designed for voice and data transmission, as well as for video applications. The completed cable is supplied under a common sheath for either aerial or direct buried applications in a variety of configurations. For aerial designs, we can provide an integral steel messenger for Figure 8 clamp support, and for direct burial, General Cable can provide unshielded or shielded designs, depending on the degree of mechanical protection required.

We have an extensive technical staff for design support. Please contact your General Cable Sales Representative for additional information.



Wire Products

4

Wire products are small size distribution wires used as the last link in bringing telecommunication services to the subscriber. These services can incorporate voice, data and video channels.

Wire products are used in constructions from one pair to six pairs. They are made for either self-supported aerial or for buried service applications.

Aerial Services Wires are supported by either an integral steel wire, glass fibers imbedded in the jacket, or by the use of high tensile copper-clad steel conductors.

Buried Service Products are water-resistant and can be made with different shielding materials for mechanical protection during installation and against damage by rodents. All Buried Service Wire is equipped with sequential footage markings.

The temperature range that Telecommunications cable can withstand is:

For storage and operation:

-45°C to 80°C

-49°F to 176°F

For installation:

-30°C to 60°C

-22°F to 140°F

Multi-pair Aerial and Filled Service Wires have the transmission performance capability of 100Ω, Category 3 Horizontal UTP Cables specified in TIA/EIA-568-B.

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| Glass Supported Drop Wire 2, 3 and 6 Pair Bell System Type and RDUP (RUS) Spec. 4292-4294 | 24 |
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Drop Wire

BELL SYSTEM TYPE F DROP AND RDUP (RUS) PE-7

Spec. 4295

Product Construction:

Conductors:

- 18½ AWG solid 30% conductivity extra high strength copper-covered steel

Sheath:

- Black, flame-, weather- and abrasion-resistant PVC compound extruded over two conductors in a parallel configuration

Polarity Identification:

- Polarity ridge on one leg of the web located at 45° above the major axis of the wire cross-section

Application(s):

- Self-supporting one pair parallel conductor drop wire intended for aerial service connection to the subscriber

Compliance:

- Telcordia (Bellcore) Specification TR-NWT-000121
- Rural Development Utility Program (RDUP) Bulletin 1753 F-204 (RUS PE-7)
- ANSI/ICEA S-89-648-1993

Packaging:

- Available in Pull-Pac™ cartons (PP), coils in cartons (CL/CTN) and reels (RL)



| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 7021421 | 1/18½ | 0.130 x 0.255 | 24 | 1000 CL |
| 7021496 | 1/18½ | 0.130 x 0.255 | 24 | 1000 PP |
| 7021512 | 1/18½ | 0.130 x 0.255 | 24 | 1000 CL/CTN |
| 2091004 | 1/18½ | 0.130 x 0.255 | 24 | 2500 RL |

Data subject to change without notice. Contact your Customer Service Representative for latest information.



Passes UL VW-1
Flame Test
Underwriters Laboratories Inc.



C Rural Wire

BELL SYSTEM TYPE

Spec. 4283

Product Construction:

Conductors:

- 14 or 12 AWG solid 30% conductivity extra high strength copper-covered steel

Sheath:

- Black, high density polyethylene compound extruded over two conductors in a parallel configuration

Polarity Identification:

- Polarity ridge on one minor face of the insulation located at 45° above the major axis of the wire cross-section

Application(s):

- Self-supporting one pair parallel conductor drop wire intended for aerial distribution in rural exchange areas

Compliance:

- Telcordia (Bellcore) Specification TA-TSY-000125

Packaging:

- Available in coils (CL) and reels (RL)



Nominal Cable Data

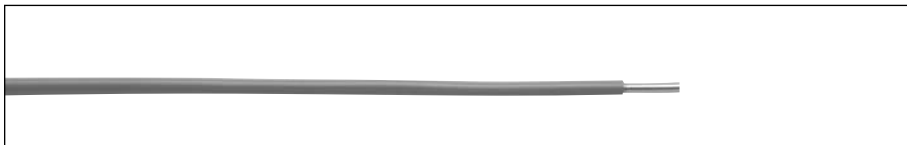
| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 6307482 | 1/14 | 0.160 x 0.280 | 37 | 1000 CL |
| 3114733 | 1/14 | 0.160 x 0.280 | 37 | 5000 (21") RL |
| 7013881 | 1/14 | 0.160 x 0.280 | 37 | 5500 (29") RL |
| 2091013 | 1/12 | 0.190 x 0.315 | 54 | 4000 (21") RL |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

PVC Insulated Ground Wire

BELL SYSTEM TYPE

Spec. 2621

**Product Construction:****Conductor:**

- Solid annealed copper

Insulation:

- Light olive gray, flame-retardant, weather- and abrasion-resistant PVC compound extruded over the conductor

Application(s):

- Single conductor for connection to ground for customer premises or network equipment and station protectors

Compliance:

- Telcordia (Bellcore) Specification TA-TSY-000120
- UL Listed VW-1

Packaging:

- Available in coils (CL), coils in cartons (CL/CTN) and reels (RL)

Nominal Cable Data

| CATALOG NUMBER | AWG | CABLE CODE | NOM. O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----|------------|--------------------|------------------|----------------------|
| 7515307 | 6 | V-61-C | 0.22 | 90 | 600 CL |
| 7515257 | 6 | V-61-C | 0.22 | 90 | 4000 RL |
| 7515265 | 10 | V-101-C | 0.15 | 37 | 200 CL/CTN |
| 2091083 | 10 | V-101-C | 0.15 | 37 | 10000 RL |

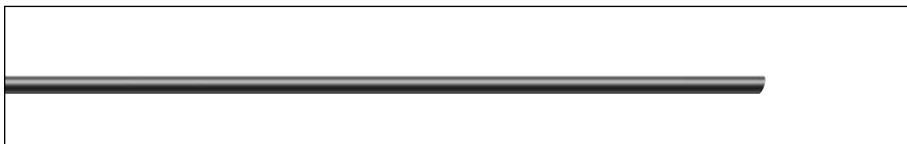
Data subject to change without notice. Contact your Customer Service Representative for latest information.



Bare Ground Wire

BELL SYSTEM TYPE

Spec. 2622

**Product Construction:****Conductor:**

- Solid annealed copper

Application(s):

- Single conductor for grounding aerial cables and pole-mounted equipment. Proper Telephone Co. grounding practices must be followed

Compliance:

- Telcordia (Bellcore) Specification TA-TSY-000120
- ASTM B-3

Packaging:

- Available in coils (CL), coils in cartons (CL/CTN) and reels (RL)

Nominal Cable Data

| CATALOG NUMBER | AWG | CABLE CODE | NOM. O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----|------------|--------------------|------------------|----------------------|
| 2091090 | 6 | B-6 | 0.16 | 79 | 50 CL/CTN |
| 2091093 | 6 | B-6 | 0.16 | 79 | 600 CL |
| 2091095 | 6 | B-6 | 0.16 | 79 | 4000 RL |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Glass Supported Drop Wire 2, 3 and 6 Pair

BELL SYSTEM TYPE AND RDUP (RUS)

Spec. 4292-4294

Product Construction:

Conductors:

- 22 AWG solid annealed copper

Insulation:

- Color-coded high density polyethylene

Assembly:

- 2, 3 or 6 twisted pairs and rip cord placed parallel between the glass strength members

Jacket:

- Black, flame-retardant, weather- and abrasion-resistant PVC compound extruded over core assembly

Application(s):

- Self-supporting drop wire intended for aerial service connection to the subscriber
- Compatible with "P" Clamp/Wedge type hardware
- Glass strength member is lightweight, easy to install
- No need for support wire grounding
- Not affected by salt air and corrosive environments

Compliance:

- Telcordia (Bellcore) Specification TR-NWT-001069
- Rural Development Utility Program (RDUP) Bulletin 1753 F-204

Packaging:

- Available in Pull-Pac™ cartons (PP), coils (CL), reels (RL) and reelsaver (RS)



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 2090021 | 2/22 | 0.20 x 0.40 | 40 | 500 RS |
| 2090008* | 2/22 | 0.20 x 0.40 | 40 | 750 PP |
| 2090012 | 2/22 | 0.20 x 0.40 | 40 | 750 CL |
| 2090010 | 2/22 | 0.20 x 0.40 | 40 | 1000 CL |
| 2090053 | 2/22 | 0.20 x 0.40 | 40 | 3500 RL |
| 2090052* | 3/22 | 0.28 x 0.44 | 54 | 600 PP |
| 2090018* | 6/22 | 0.27 x 0.50 | 80 | 400 PP |
| 2090014 | 6/22 | 0.27 x 0.50 | 80 | 400 CL |
| 2090055 | 6/22 | 0.27 x 0.50 | 80 | 500 CL |
| 2090051 | 6/22 | 0.27 x 0.50 | 80 | 1000 RL |
| 2090056 | 6/22 | 0.27 x 0.50 | 80 | 2500 RL |
| 2090013 | 6/22 | 0.27 x 0.50 | 80 | 3500 RL |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

* These Telecommunications wire items have sequential markings.

Multiple Pair Aerial Service Wire

BELL SYSTEM TYPE

Spec. 4298



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 2091018 | 2/22 | 0.30 x 0.50 | 54 | 600 CL |
| 2091019 | 2/22 | 0.30 x 0.50 | 54 | 5000 RL |
| 2091021 | 6/22 | 0.35 x 0.55 | 78 | 400 CL |
| 2091015 | 6/22 | 0.35 x 0.55 | 78 | 500 CL |
| 2091016 | 6/22 | 0.35 x 0.55 | 78 | 3500 RL |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Product Construction:

Conductors:

- 22 AWG solid annealed copper

Insulation:

- Color-coded high density polyethylene

Jacket:

- The pairs and a .083" diameter galvanized steel messenger are enclosed in a black flame-retardant, weather- and abrasion-resistant PVC jacket in a Figure 8 configuration

Application(s):

- Provides multiple line telecommunication service connection to the subscriber

Compliance:

- Telcordia (Bellcore) Specification TR-NWT-000122

Packaging:

- Available in coils (CL) and reels (RL)



Passes UL VW-1
Flame Test

Underwriters Laboratories Inc.



Listed Type
MISC.



Double Jacketed Buried Service Wire

Spec. 4284

GOPHER-RESISTANT RDUP (RUS) PE-86
ICEA S-86-634

Product Construction:

Conductors:

- Solid annealed copper

Insulation:

- High density polyethylene

Pairing:

- Varying pair lays

Core Filling:

- 80°C filling and flooding compounds

Inner Jacket:

- Linear low density polyethylene

Shield:

- 0.005" corrugated copper-clad alloy steel tape

Rip Cord:

- Under the outer jacket

Outer Jacket:

- Black, linear low density polyethylene

Application(s):

- Intended for use in buried service application to the subscriber loops
- The shielding material provides resistance to gopher damage

Compliance:

- ICEA S-86-634
- RDUP 7 CFR 1755.860 (RUS PE-86) for 2 and 3 pair constructions, formerly PE-54 CCS

Packaging:

- Standard coils or on non-returnable plywood reels in lengths as shown above



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. INCHES | WEIGHT LBS/MFT | STANDARD LENGTH (FT) |
|----------------|-----------|-------------|----------------|----------------------|
| 2095061 | 2/22 | 0.32 | 57 | 2500 |
| 2095002 | 2/22 | 0.32 | 57 | 5000 |
| 2095151 | 3/22 | 0.34 | 65 | 1000 |
| 2095064 | 3/22 | 0.34 | 65 | 2500 |
| 2095016 | 3/22 | 0.34 | 65 | 5000 |
| 2095150 | 6/22 | 0.40 | 93 | 1000 |
| 2095065 | 6/22 | 0.40 | 93 | 2500 |
| 2095063 | 6/22 | 0.40 | 93 | 5000 |
| 2095067 | 3/24 | 0.31 | 55 | 2500 |
| 2095066 | 3/24 | 0.31 | 55 | 5000 |
| 2095068 | 6/24 | 0.36 | 74 | 2500 |
| 2095069 | 6/24 | 0.36 | 74 | 5000 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Double Jacketed Buried Service Wire

WITH ALUMINUM SHIELD ICEA S-86-634

Spec. 4287**Nominal Cable Data**

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 2095138 | 2/22 | 0.33 | 48 | 1000 |
| 2095125 | 2/22 | 0.33 | 48 | 2500 |
| 2095126 | 2/22 | 0.33 | 48 | 5000 |
| 2095127 | 3/22 | 0.35 | 56 | 2500 |
| 2095128 | 3/22 | 0.35 | 56 | 5000 |
| 2095137 | 6/22 | 0.41 | 82 | 1000 |
| 2095129 | 6/22 | 0.41 | 82 | 2500 |
| 2095130 | 6/22 | 0.41 | 82 | 5000 |
| 2095131 | 2/24 | 0.30 | 39 | 2500 |
| 2095132 | 2/24 | 0.30 | 39 | 5000 |
| 2095133 | 3/24 | 0.32 | 46 | 2500 |
| 2095134 | 3/24 | 0.32 | 46 | 5000 |
| 2095135 | 6/24 | 0.37 | 64 | 2500 |
| 2095136 | 6/24 | 0.37 | 64 | 5000 |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Product Construction:**Conductors:**

- Solid annealed copper

Insulation:

- High density polyethylene

Pairing:

- Varying pair lays

Core Filling:

- 80°C filling and flooding compounds

Inner Jacket:

- Linear low density polyethylene

Shield:

- Polymer-coated 0.008" aluminum tape

Rip Cord:

- Under the outer jacket

Outer Jacket:

- Black, linear low density polyethylene

Application(s):

- Intended for use in buried service application to the subscriber loops

Compliance:

- ICEA S-86-634

Packaging:

- Standard coils or on non-returnable plywood reels in lengths as shown above

Double Jacketed Buried Service and Distribution Wire Spec. 3503

BELL SYSTEM TYPE—GOPHER-RESISTANT

Product Construction:

Conductors:

- 22 or 19 AWG solid annealed copper

Insulation:

- High density polyethylene

Pairing:

- Varying pair lays

Core Filling:

- 80°C filling compound

Inner Jacket:

- Linear low density polyethylene

Shield:

- 0.005" corrugated copper-clad alloy steel tape

Rip Cords:

- Under each jacket

Outer Jacket:

- Black, linear low density polyethylene

Application(s):

- Intended for use in buried service application to the subscriber loops
- The shielding material provides resistance to gopher damage

Compliance:

- Telcordia (Bellcore) TR-NWT-000124

Packaging:

- Standard coils or on non-returnable plywood reels in lengths as shown above



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 2095093 | 3/22 | 0.34 | 62 | 500 Coil |
| 2095089 | 3/22 | 0.34 | 62 | 1200 Reel |
| 2095090 | 3/22 | 0.34 | 62 | 3000 Reel |
| 2095091 | 3/22 | 0.34 | 62 | 5000 Reel |
| 2095094 | 6/22 | 0.40 | 88 | 800 Reel |
| 2095095 | 6/22 | 0.40 | 88 | 3000 Reel |
| 2095096 | 6/22 | 0.40 | 88 | 5000 Reel |
| 2095100 | 3/19 | 0.42 | 95 | 1200 Reel |
| 2095101 | 3/19 | 0.42 | 95 | 3000 Reel |
| 2095102 | 3/19 | 0.42 | 95 | 5000 Reel |
| 2095105 | 6/19 | 0.51 | 150 | 800 Reel |
| 2095107 | 6/19 | 0.51 | 150 | 3000 Reel |
| 2095106 | 6/19 | 0.51 | 150 | 5000 Reel |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Single Jacketed Buried Service Wire

BELL SYSTEM TYPE C SERVICE

Spec. 3502



Nominal Cable Data

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | STANDARD LENGTH (FT) |
|----------------|-----------|---------------|------------------|----------------------|
| 2095088 | 3/22 | 0.30 | 53 | 500 Coil |
| 2095160 | 3/22 | 0.30 | 53 | 1200 Reel |
| 2095084 | 3/22 | 0.30 | 53 | 3000 Reel |
| 2095086 | 3/22 | 0.30 | 53 | 5000 Reel |
| 2095087 | 3/22 | 0.30 | 53 | 8000 Reel |
| 2095161 | 6/22 | 0.37 | 81 | 800 Reel |
| 2095098 | 6/22 | 0.37 | 81 | 3000 Reel |
| 2095099 | 6/22 | 0.37 | 81 | 5000 Reel |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

Product Construction:

Conductors:

- 22 AWG solid annealed copper

Insulation:

- High density polyethylene

Pairing:

- Varying pair lays

Core Filling:

- 80°C filling and flooding compounds

Core Wrap:

- Polyester tape

Shield:

- 0.004" corrugated commercial bronze or copper-clad steel tape

Rip Cord:

- Under the jacket

Jacket:

- Black, linear low density polyethylene

Application(s):

- Intended for use in buried service application to the subscriber loops

Compliance:

- Telcordia (Bellcore) TR-NWT-000124

Packaging:

- Standard coils or on non-returnable plywood reels in lengths as shown above

Outdoor Category 5e 4 Pair 24 AWG Buried Service Wire

ICEA S-90-661

GenSPEED® 5000**Product Construction:****Conductors:**

- 24 AWG solid bare annealed copper

Insulation:

- Color coded Polyolefin

Flooding Compound:

- Waterproof gel prevents moisture migration

Jacket:

- Black UV- and abrasion-resistant polyethylene (PE)
- TRU-MARK™ print legend (1000' to 0')
- The jacket is designed to withstand low and high temperatures
-30°C to 60°C per installation
-45°C to 80°C per operation

Application(s):

- GenSPEED® 5000 outdoor category 5e cable with armor can be installed directly in the ground, in a duct or aerially lashed to a strength member. The non-armored design is for duct installation only
- 1000 BASE-T (Gigabit Ethernet)
- 100/10BASE-T (IEEE 802.3)
- 52/155 Mbps ATM
- Voice/T1

Compliance:

- MIL-C-24640A water penetration requirements
- ANSI/TIA/EIA 568B.2 (Category 5e)
- ANSI/ICEA S-90-661 (Category 5e)
- NEMA WC63.1 (Category 5e)
- ISO 11801 (Category 5e)

Packaging:

- 1000' Reels (RL)
- Non-standard packaging is also available

**Nominal Cable Data**

| CATALOG NUMBER | PAIRS AWG | O.D. (INCHES) | WEIGHT (LBS/MFT) | ARMOR |
|----------------|-----------|---------------|------------------|----------|
| 5136100 | 4/24 | 0.230 | 25 | NONE |
| 5136101 | 4/24 | 0.340 | 75 | Aluminum |

Data subject to change without notice. Contact your Customer Service Representative for latest information.

GenSpeed® 5000 Outdoor Category 5e cable with armor can be installed directly in the ground, in a duct, or aerially lashed to a strength member. The non-armored design is for duct installation only.

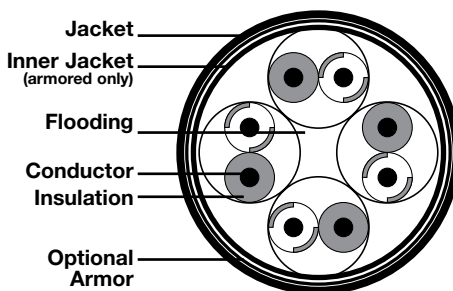
Electrical Characteristics

| | |
|--|------------------|
| DC Resistance (max) Ohms/100m (328 ft) @ 20°C | 9.38 |
| Mutual Capacity (nom) pF/ft @ 1kHz | 17 |
| Nominal Velocity of Propagation (NVP) % Speed of Light | 69 |
| Propagation Delay (max) ns @ 100 MHz | 583 |
| Delay Skew (max) ns/100m | 45 |
| Characteristic Impedance Frequency (f): 1-100 MHz | Ohms 100 ± 15 |

Electrical Characteristics

| Frequency (MHz) | Attenuation (max) | NEXT (min) | PSNEXT (min) | ELFEXT (min) | PSELFEXT (min) | Return Loss (min) |
|-----------------|-------------------|------------|--------------|--------------|----------------|-------------------|
| 1 | 2.0 | 65.3 | 62.3 | 63.8 | 60.8 | 20.0 |
| 4 | 4.1 | 56.3 | 53.3 | 51.7 | 48.7 | 23.0 |
| 8 | 5.8 | 51.3 | 48.3 | 45.7 | 42.7 | 24.5 |
| 10 | 6.5 | 50.3 | 47.3 | 43.8 | 40.8 | 25.0 |
| 16 | 8.2 | 47.3 | 44.4 | 39.7 | 36.7 | 25.0 |
| 20 | 9.3 | 45.3 | 42.8 | 37.7 | 34.7 | 25.0 |
| 25 | 10.4 | 44.3 | 41.3 | 35.8 | 32.8 | 24.3 |
| 31.25 | 11.7 | 42.9 | 39.9 | 33.9 | 30.9 | 23.6 |
| 62.5 | 17.0 | 38.4 | 35.4 | 27.8 | 24.8 | 21.5 |
| 100 | 22.0 | 35.3 | 32.3 | 23.8 | 20.8 | 20.1 |

Note: Values are expressed in dB per 100m (328ft.) length.



Technical Information

5

The complexity of today’s Outside Voice and Data transmissions has generated an increasing demand for more technical information. In the current business world, customer service representatives, engineers, distributors and end-users do not have time to search for answers to their technical questions.

To this end, General Cable is including a limited technical section to help simplify these decisions and enable you to more expeditiously locate the products you need and answer product-specific questions.

Reel size and weight charts based on O.D. are available upon request from your Customer Service Representative.

Sag and Tension tables are available on the Telecommunications Web page under “Resource/Services.”

For additional technical information, please contact your sales representative or our customer service department.

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Color Code Chart

PLASTIC INSULATED COMMUNICATION CABLES

25 PAIR UNIT COLORS

| PAIR NUMBER | RING COLOR | TIP COLOR | PAIR NUMBER | RING COLOR | TIP COLOR |
|-------------|------------|-----------|-------------|------------|-----------|
| 1 | Blue | White | 13 | Green | Black |
| 2 | Orange | White | 14 | Brown | Black |
| 3 | Green | White | 15 | Slate | Black |
| 4 | Brown | White | 16 | Blue | Yellow |
| 5 | Slate | White | 17 | Orange | Yellow |
| 6 | Blue | Red | 18 | Green | Yellow |
| 7 | Orange | Red | 19 | Brown | Yellow |
| 8 | Green | Red | 20 | Slate | Yellow |
| 9 | Brown | Red | 21 | Blue | Violet |
| 10 | Slate | Red | 22 | Orange | Violet |
| 11 | Blue | Black | 23 | Green | Violet |
| 12 | Orange | Black | 24 | Brown | Violet |
| | | | 25 | Slate | Violet |

UNIT BINDER COLORS FOR FULL COLOR CODE

| GROUP NUMBER | BINDER COLORS | PAIR RANGE |
|--------------|-----------------|------------|
| 1 | White - Blue | 1 - 25 |
| 2 | White - Orange | 26 - 50 |
| 3 | White - Green | 51 - 75 |
| 4 | White - Brown | 76 - 100 |
| 5 | White - Slate | 101 - 125 |
| 6 | Red - Blue | 126 - 150 |
| 7 | Red - Orange | 151 - 175 |
| 8 | Red - Green | 176 - 200 |
| 9 | Red - Brown | 201 - 225 |
| 10 | Red - Slate | 226 - 250 |
| 11 | Black - Blue | 251 - 275 |
| 12 | Black - Orange | 276 - 300 |
| 13 | Black - Green | 301 - 325 |
| 14 | Black - Brown | 326 - 350 |
| 15 | Black - Slate | 351 - 375 |
| 16 | Yellow - Blue | 376 - 400 |
| 17 | Yellow - Orange | 401 - 425 |
| 18 | Yellow - Green | 426 - 450 |
| 19 | Yellow - Brown | 451 - 475 |
| 20 | Yellow - Slate | 476 - 500 |
| 21 | Violet - Blue | 501 - 525 |
| 22 | Violet - Orange | 526 - 550 |
| 23 | Violet - Green | 551 - 575 |
| 24 | Violet - Brown | 576 - 600 |

UNIT BINDER COLORS FOR MIRROR IMAGE 100 PAIR SUPER-UNIT

| GROUP NUMBER | BINDER COLORS | PAIR RANGE |
|--------------|---------------|------------|
| 1 | Blue | 1 - 25 |
| 2 | Orange | 26 - 50 |
| 3 | Green | 51 - 75 |
| 4 | Brown | 76 - 100 |

300 PAIR SUPER-UNIT

| GROUP NUMBER | BINDER COLORS | PAIR RANGE |
|--------------|----------------|------------|
| 1 | White - Blue | 1 - 25 |
| 2 | White - Orange | 26 - 50 |
| 3 | White - Green | 51 - 75 |
| 4 | White - Brown | 76 - 100 |
| 5 | White - Slate | 101 - 125 |
| 6 | Red - Blue | 126 - 150 |
| 7 | Red - Orange | 151 - 175 |
| 8 | Red - Green | 176 - 200 |
| 9 | Red - Brown | 201 - 225 |
| 10 | Red - Slate | 226 - 250 |
| 11 | Black - Blue | 251 - 275 |
| 12 | Black - Orange | 276 - 300 |

SUPER-UNIT BINDER COLORS FOR MIRROR IMAGE (See drawings on the next page)

SPARE PAIRS FOR MIRROR IMAGE

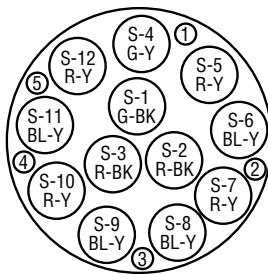
| PAIR NUMBER | PAIR COLORS |
|-------------|-----------------|
| 1 | White - Red |
| 2 | White - Black |
| 3 | White - Yellow |
| 4 | White - Violet |
| 5 | Red - Black |
| 6 | Red - Yellow |
| 7 | Red - Violet |
| 8 | Black - Yellow |
| 9 | Black - Violet |
| 10 | Yellow - Violet |
| 11 | Blue - Orange |
| 12 | Blue - Green |
| 13 | Blue - Brown |
| 14 | Blue - Slate |
| 15 | Orange - Green |

SUPER-UNIT BINDER COLORS FOR FULL COLOR CODE

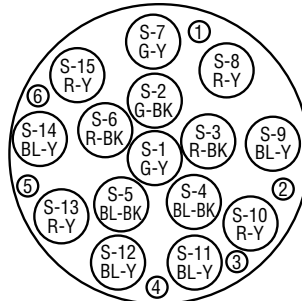
| S.U. BINDER COLOR | PAIR RANGE |
|-------------------|-------------|
| White | 1 - 600 |
| Red | 601 - 1200 |
| Black | 1201 - 1800 |
| Yellow | 1800 - 2400 |

Color Code Chart

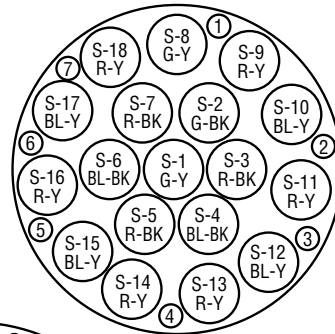
SUPER-UNIT BINDER COLORS FOR MIRROR IMAGE



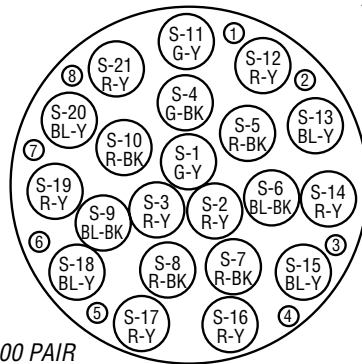
1200 PAIR



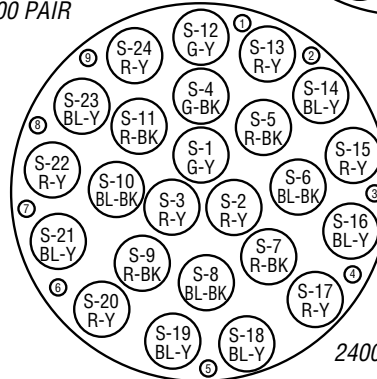
1500 PAIR



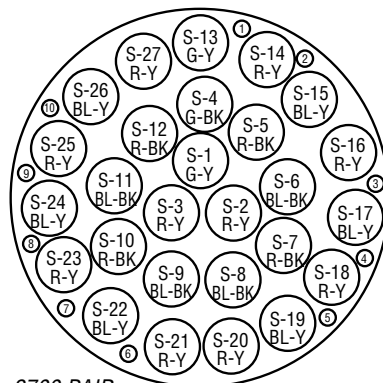
1800 PAIR



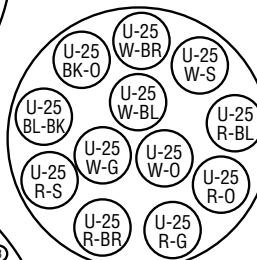
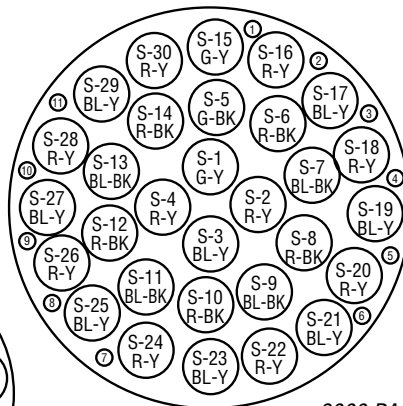
2100 PAIR



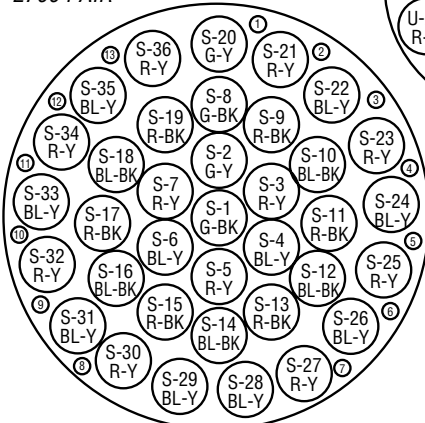
2400 PAIR



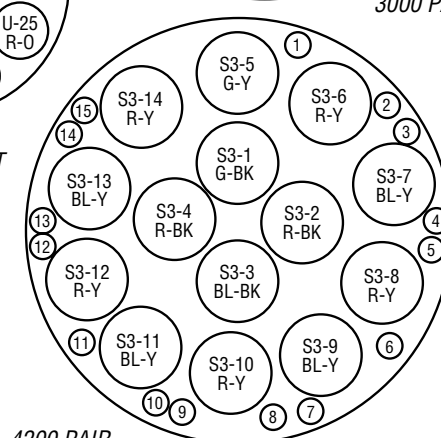
2700 PAIR

300 PAIR
SUPER-UNIT

3000 PAIR

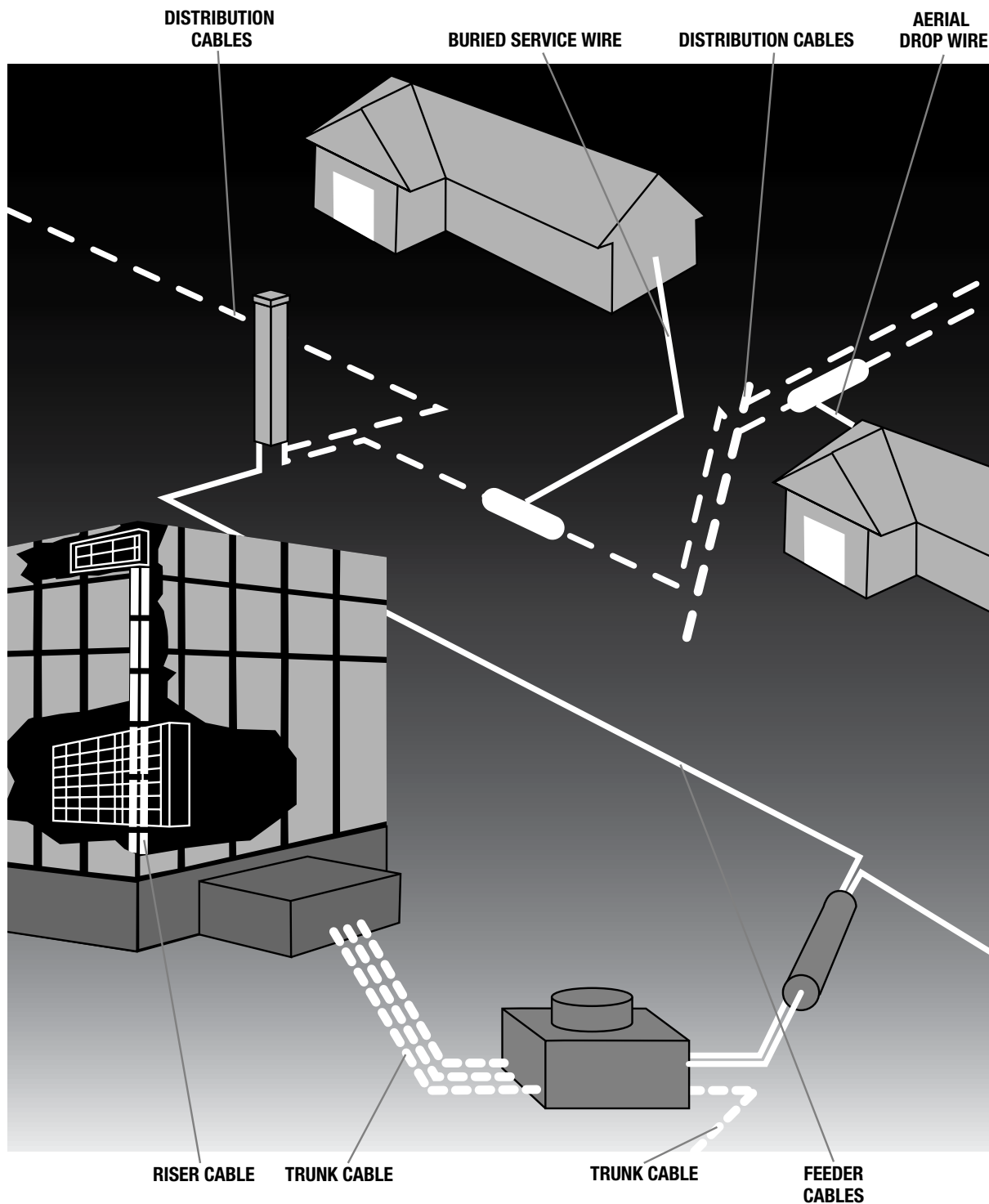


3600 PAIR



4200 PAIR

Local Distribution Network



Glossary

Abrasion Resistance: Ability of material or cable to resist surface wear.

Accelerated Aging: A test performed on material or cable meant to duplicate long-term environmental conditions in a relatively short period of time.

Access line: A local access connection (fixed or wireless) between a customer's premises and a carrier's central office switch.

Aerial Cable: Cable suspended in the air on poles or other overhead structures.

Air Core: A telephone outside plant cable construction for aerial and duct installation in which the insulated conductors in the cable core are surrounded by air.

Alloy: A combination of two or more metals to form a new or different metal, having specific or desirable qualities.

ALPETH: Telephone cable sheath employing a corrugated aluminum shield and an outer polyethylene jacket.

ALVYN: A cable sheath consisting of a coated corrugated aluminum (AL) shield and an outer polyvinyl chloride (VYN) jacket.

American Wire Gauge: (AWG)
A standard used in the determination of the physical size of a conductor determined by its circular mil area. AWG is used in the U.S. to designate the size of wire and conductors. The gauge numbers are retrogressive—the larger the gauge number the smaller the wire.

Analog Signal: A signal in which the intelligence is represented by continuously varying quantities.

Anneal: The act of softening a metal, such as copper, by means of heat to render it less brittle.

Armor: Mechanical protection usually accomplished by a metallic layer of tape, braid or served wires. Normally found only over the outer sheath.

ASP: A cable sheath consisting of a corrugated aluminum (A) shield, corrugated steel (S) shield, flooding compound and an outer polyethylene (P) jacket.

ASTM: Abbreviation of the American Society for Testing and Materials, a non-profit industry-wide organization which publishes standards, methods of test, recommended practices, definitions and other related material.

Attenuation: Power loss in an electrical system. In cables, generally expressed in dB per unit length, usually 1,000 feet.

Bandmarking: A circumferential color band applied to an insulated conductor at regular intervals for identification.

Bandwidth: The frequency range of electrical signals transmitted.

Bare Conductor: A conductor not covered with insulating material.

Binder: Usually spirally wrapped tape or thread used for holding assembled cable components in place.

Bit Rate: The rate at which binary or code information is transmitted over a communicating channel. Measured in bits per second.

Braid: A fibrous or metallic group of filaments interwoven cylindrically to form a covering over one or more insulated conductors.

Buried Cable: A cable installed directly in the earth without use of underground conduit. Also called direct buried cable.

Buried Distribution and Service Wires:
Telephone wires which are designed to provide buried service extensions from distribution cables to the subscriber's protector.

Cable: Insulated conductors or twisted group of insulated conductors used for the transmission of electrical energy.

Cabling: The act of twisting together two or more insulated components by machine to form a cable.

Capacitance: The ratio of the electrostatic charge on a conductor to a potential difference between the conductors required to maintain that charge.

Carrier: A telco that owns and operates its own network and provides transmission services to other service providers through its facilities.

Central Office: A building housing the telephone switching apparatus.

Characteristic Impedance:
A frequency-dependent resistance which quantifies the complex opposition to current flow offered by a transmission line.

Circuit: A complete path over which electrons can flow from the negative terminals of a voltage source through parts and wires to the positive terminals of the same voltage source. When the continuity of the circuit is broken it is called an open circuit; when continuity is maintained it is called a closed circuit.

Coaxial Cable: A cable consisting of two cylindrical conductors with a common axis, separated by a dielectric.

Cold Bend: A laboratory test procedure whereby a sample of wire or cable is wound around a mandrel of a specified size at a specified temperature for a given number of turns at a given rate of speed and examined for defects.

Color Code: A color system for circuit identification by use of solid colors, tracers, braids, surface marking, etc.

Compound: A term used to designate an insulating or jacketing material made by mixing two or more ingredients. To Compound: the combining of two or more different materials to make one material.

Concentricity: In a wire or cable, the measurement of the location of the center of the conductor with respect to the geometric center of the circular insulation.

Conductance: A measure of the ability of a conductor to carry an electrical charge. Conductance is a ratio of the current flow to the potential difference causing the current flow.

Conductivity: A term used in describing the capability of a material to carry an electrical charge. Usually expressed as a percentage of copper conductivity—copper being one hundred (100%) percent. Conductivity is expressed for a standard configuration of conductor.

Conductor: Any material capable of easily carrying an electrical charge.

Conduit: A tube or trough for protecting electrical wires and cables. It may be a rigid or flexible tube into which insulated electrical wires are pulled.

Connector: A device used to physically and electrically connect two or more conductors.

Continuity Check: A test to determine whether electrical current flows continuously throughout the length of a single wire or individual wires in a cable.

Core: In cables, a component or assembly of components over which additional components (shield, sheath, etc.) are applied.

Crosstalk: Signal interference between nearby conductors caused by the pickup of stray energy.

CSA: Abbreviation for Canadian Standards Association, a non-profit, independent organization which operates a listing service for electrical and electronic materials and equipment. The Canadian counterpart of the Underwriters Laboratories.

Glossary

Current Carrying Capacity: The maximum current an insulated conductor can safely carry without exceeding its insulation and jacket temperature limitations.

Decibel (dB): A standard of unit based on a logarithmic scale for expressing transmission gain or loss and relative power levels.

Dielectric: Any insulating medium which intervenes between two conductors and permits electrostatic attraction and repulsion to take place across it.

Dielectric Constant: The ratio of the capacitance of an insulated wire with that of the same wire uninsulated in air.

Dielectric Strength: The voltage which an insulation can withstand before breakdown occurs. Usually expressed as a voltage gradient (such as volts per mil).

Dielectric Test: A test in which a voltage higher than the rated voltage is applied for a specified time to determine the adequacy of the insulation under normal conditions.

Digital Signal: A signal in which the data is represented by a series of discrete steps or pulses.

Digital Subscriber Line (DSL): A technology used to increase the capacity of copper telephone lines.

Distribution Cable: The cable portion of the local outside plant network between the feeder cable and the subscriber.

Drain Wire: An uninsulated wire in a cable used to facilitate shield connection.

Drawing: In the manufacture of wire, pulling the metal through a die or series of dies in order to reduce the diameter to a specified size.

Drop Wire: A wire designed for use as service drops from aerial distribution terminals to subscriber station protectors.

Duct: An underground or overhead tube for carrying electrical conductors.

Eccentricity: Like concentricity, a measure of the center of a conductor's location with respect to the circular cross-section of the insulation; expressed as a percentage of center displacement of one circle within the other.

Elongation: The fractional increase in length of a material stressed in tension.

Embossing: A means of marker identification by means of thermal indentation leaving raised lettering on a cable's sheath material.

Ethernet: A local area network (LAN) which uses the CSMA/CD (Carrier Sense Multiple Access with Collision Detection) access method on a bus topography.

Extrusion: Method of continuously forcing plastic, rubber, or elastomer material through an orifice to apply insulation or jacketing over a conductor or cable core.

Fiber: A thread or threadlike structure. Also, a single discrete element used to transmit optical (lightwave) information.

Fiber Optics: A lightwave or optical communications system in which electrical information is converted to light energy, transmitted to another location through optical fibers and then converted back into electrical information.

Figure 8 Cable: An aerial cable configuration in which the conductors and steel strand, which supports the cable, are integrally jacketed. A cross-section of the finished cable approximates the figure "eight".

Filled Cable: A telephone outside plant cable construction for direct buried installation in which the cable core is filled with a material that will prevent moisture from entering or passing through the cable.

Flame Resistance: Measure of a material's ability not to propagate flame once the source of heat is removed.

Flammability: Measure of a material's ability to support combustion.

Flex Life: The measurement of the ability of a conductor or cable to withstand repeated bending.

Foam Skin Cable: A cable utilizing a foamed polyolefin inner layer covered by a solid polyolefin skin as the conductor insulation.

Frequency: The number of cycles, now expressed as hertz, by an alternating current in one second. The hertz is equivalent to the older unit cycles per second.

Gauge: A term used to denote the physical size of a wire.

Ground: 1) An electrical term meaning to connect to the earth or other large conducting body to serve as an earth thus making a complete electrical circuit; 2) A wire intended to be used for grounding (also called grounding conductor).

Hard Drawn Copper Wire: Copper wire that has been drawn to size and not annealed.

Helical Stripe: A continuous, colored, spiral stripe applied over the outer perimeter of an insulated conductor for circuit identification purposes.

Hygroscopic: Capable of absorbing moisture from the air.

Impact Strength: A test designed to ascertain the abuse a cable configuration can absorb, without physical or electrical breakdown, by impacting with a given weight, dropped from a given height, in a controlled environment.

Impedance: The total opposition that a circuit offers to the flow of alternating current at a particular frequency. It is a combination of resistance R and reactance X, measured in ohms.

Inductance: The property of a circuit or circuit element that opposes a change in current flow, thus causing current changes to lag behind voltage changes. It is measured in henrys.

Inside Wire: Wire designed to carry a telephone circuit(s) through the customer's premises.

Insulated Wire: A conductor of electricity covered with a non-conducting material.

Insulation: A non-conductive material usually surrounding or separating two conductive materials. Often called the dielectric in a radio frequency cable.

Insulation Resistance: That property of an insulating material which resists electrical current flow through the insulating material when a potential difference is applied.

Integrated Service Digital Network (ISDN): A digital data communications network providing full integration of data, voice and video.

Interconnect Companies: Companies which sell, install and maintain telephone systems for end users.

Interexchange Carrier (IXC): A long-distance telephone carrier authorized to carry transmissions between local access and transport areas.

Internet Protocol (IP): The set of rules that defines how information is packaged and addressed for delivery across the Internet.

Internet Service Provider (ISP): A company that offers consumers and businesses access to the internet and other related services.

Interstices: In cable construction, the spaces, valleys or voids between or around the cable's components.

Irradiation: In insulations, the exposure of the material to high energy emissions for the purpose of favorably altering the molecular structure by cross-linking.

Glossary

Jacket: A material covering over a wire insulation or an assembly of components. An overall jacket on a complex cable grouping. Also called a sheath.

Jumper Wire: PVC insulated connectors twisted together and used for cross-connecting on distributing frames.

Kilo: A numerical prefix denoting 1000 (10³).

Lay: A term used in cable manufacturing to denote the distance of advance of one member of a group of spirally twisted members, in one turn, measured axially.

Life Cycle: A test performed on a material or configuration to determine the length of time before failure in a controlled, usually accelerated, environment.

Local Area Network (LAN): A network spanning a limited geographical area, providing data communications between computers and peripherals, and switching equipment.

Local Exchange Carrier (LEC): A telephone company that provides the dial tone to the end consumer. Incumbent local exchange carriers (ILECs) are the Bell Operating companies and smaller independent phone companies that originally provided local phone services to specific geographic communities on a regulated, monopoly basis. CLECs are competitive local carriers created out of the Telecommunications Act of 1996.

Local Number Portability (LNP): The practice of letting a customer switch service from one local company to another without having to change their telephone number.

Longitudinal Wrap: A tape applied longitudinally with the axis of the core being covered, as opposed to a helical, or spiral, tape wrapped core.

Marker Tape: A tape laid parallel to the conductors under the sheath in a cable which is imprinted with the manufacturer's name and the specification to which the cable is made. Other information such as date of manufacture may also be included.

Marker Thread: A colored thread laid parallel and adjacent to the strands of an insulated conductor which identifies the cable manufacturer. It may also denote a temperature rating or the specification to which the cable is made.

Mil: 1/1000 of an inch.

Moisture Resistance: The ability of a material to resist absorbing moisture from the air or when immersed in water.

Multi-Conductor: More than one conductor within a single cable complex.

Multimedia Cable: A single communication cable used for the transmission of audio, data and video signals.

Mutual Capacitance (Cm): The capacitance between two conductors when all other conductors, including the shield, are short circuited to ground.

National Electrical Code (NEC): A consensus standard published by the National Fire Protection Association (NFPA) and incorporated in OSHA regulations.

Network: 1) Series of points connected by communications channels; 2) Network of telephone lines normally used for dialed telephone calls; 3) Network of communications channels connected to the use of one customer. For purposes of data communications applications, components in a common geographical area, served by a common computer, or performing a common function may be defined as one network. Also defined as one or more interconnected data links.

Ohm: A unit of electrical resistance, the resistance of a circuit in which a potential difference of one volt produces a current of one ampere.

OSHA: Abbreviation for Occupational Safety and Health Act. Specifically the Williams-Steiger law passed in 1970 covering all factors relating to safety in places of employment.

Outside Plant (OSP): All cables and wires extending outward from the network protectors on the main distribution frame to connect the terminal equipment to the Outside Plant.

Pair: Two wires forming a single circuit, held together by twisting, binding, or a common jacket.

Parallel: A construction in which two or more conductors are laid parallel and surrounded and separated by an insulating material.

PASP: A cable sheath consisting of an inner polyethylene (P) jacket, corrugated aluminum (A) shield, corrugated steel (S) and an outer polyethylene (P) jacket.

PIC: An abbreviation for Plastic Insulated Conductor: conductors covered with an extruded coating of plastic.

Plasticizer: A chemical agent added in compounding plastics to make them softer and more flexible.

Plenum: The air return path of a central air handling system, either ductwork or open space such as that over a suspended ceiling.

Plenum Cable: Cable approved by Underwriters Laboratories for installation in plenums without the need for conduit.

Polyethylene: A family of insulating materials derived from polymerization of ethylene gas. They are basically pure hydrocarbon resins with excellent dielectric properties.

Polymer: A material having molecules of high molecular weight formed by polymerization of lower molecular weight molecules.

Polymerization: A chemical reaction in which low molecular weight molecules unite with each other to form molecules with higher molecular weights.

Polyolefin: Any of the polymers and copolymers of the ethylene family of hydrocarbons.

Polypropylene: A thermoplastic similar to polyethylene but stiffer and having a higher softening point (temperature) and excellent electrical properties.

Polyvinyl Chloride (PVC): A general purpose thermoplastic widely used for wire and cable insulations and jackets.

Pressurization: The use of pressurized gas or dry air inside Air Core cables to prevent the entry of water at faulty splices or minor sheath cracks. It can also trigger an alarm when major faults occur and can assist in locating the damaged areas.

Primary Insulation: The first layer of non-conductive material applied over a conductor, whose prime function is to act as electrical insulation.

Propagation Delay: Time required for a signal to pass from the input to the output of a device.

Propagation Time: Time required for an electrical wave to travel between two points on a transmission line.

Pulling Eye: A device which may be fastened to the conductor(s) or jacket of a cable or formed by or fastened to the wire armor and to which a hook or rope may be directly attached in order to pull the cable through a duct.

Put-Up: Refers to the packaging of wire and cable. The term itself refers to the quantity of product that is ready to be stored or shipped.

Quad: A four-conductor unit.

Rated Temperature: The maximum temperature at which an electric component can operate for extended periods without loss of its basic properties.

Glossary

Rated Voltage: The maximum voltage at which an electric component can operate for extended periods without undue degradation or safety hazard.

Regional Bell Operating Company (RBOC): A holding company formed by the divestiture of AT&T to provide both regulated and non-regulated telephone services.

Resistance: The property of an electric circuit which determines for a given current the rate at which electric energy is converted into heat and has a value such that the current squared multiplied by the resistance gives the power converted.

Ring Banding: See Bandmarking.

Rip Cord: A cord placed directly under the jacket of a cable in order to facilitate stripping (removal) of the jacket.

Riser Cable: The vertical section of a building cable extending from one floor to another.

Screened Cables: A cable core design where an aluminum shield divides the cable core into two electrically separate compartments.

Separator: Pertaining to wire and cable, a layer of dielectric material such as textile, paper, etc., which is placed between a conductor and its insulation, between a cable jacket and the components it covers, or between various components of a multi-conductor cable. It can be utilized to improve stripping qualities and/or flexibility, or can offer additional mechanical or electrical protection to the components it separates.

Sheath: The combination of a metallic shield and an extruded plastic jacket applied as the outermost covering on a cable. In the absence of a shield, the extruded jacket may be designated as a sheath.

Shield: A metallic layer placed around an insulated conductor or group of conductors to prevent electrostatic or electromagnetic interference between the enclosed wires and external fields. This shield can be braided or served wires, foil wrap, foil backed tape, a metallic tube, or conductive vinyl or rubber. When a metallic braid of tinned or bare copper is applied over the insulated conductor, the shielding effectiveness is in proportion to the amount of coverage, usually expressed as a percentage.

Spark Test: A test designed to locate pinholes in a wire's insulation by application of an electrical potential across the material for a very short period of time while the wire is drawn through an electrode field with one end of the wire grounded.

Spiral Wrap: A term given to describe the helical wrap of a tape or thread over a core.

STALPETH: A cable sheath consisting of a corrugated steel (ST) shield applied over a corrugated aluminum (AL) shield and an outer polyethylene (PETH) jacket.

Station Wire: Wire used inside and/or outside in station installations from the station protector to the telephone terminal block.

Stranding: The manufacturing process by which cable components are assembled around a central piece, forming a round core.

Switchboard Cable: A cable used within and between the central office main frames and the switchboard.

T1: A common carrier circuit leased (private line facility) which is the standard method of interconnecting digital communications systems in North America. The line operates at a rate of 1.544Mbps. With DS-1 signaling, the facility provides twenty-four 64 Kbps channels.

T-Carrier (AT&T): A hierarchy of digital systems designed to carry speech and other signals in digital form, designated T1, T2, and T4. T1 carrier has 24 PCM voice channels.

Tank Test: A voltage dielectric test in which the wire or cable test sample is submerged in water and voltage is applied between the conductor and water as ground.

Temperature Rating: The maximum temperature at which the insulating material may be used in continuous operation without loss of its basic properties.

Tensile Strength: A term denoting the greatest longitudinal tensile stress a substance can bear without tearing apart or rupturing.

Terminating Cable: A multi-paired cable usually with tinned conductors and always with fire-resistant insulation that is used primarily between the cable vault and the main distributing frame.

Thermoplastic: Material that will resoften and distort from its formed shape by heating above a critical temperature peculiar to the material.

Tinned Wire: Copper wire that has been coated with a layer of tin or solder to simplify soldering.

Tracer Stripe: When more than one color coding stripe is required, the first, or widest, stripe is the base stripe; the other, usually narrower stripes, being termed tracer stripes.

Twisted Pair: Two insulated conductors spiraled together.

UL: Abbreviation for Underwriters Laboratories, a non-profit independent organization, which operates a listing service for electrical and electronic materials and equipment.

Unbundled Network Element Provider

(UNE-P): The wholesale purchase of all network elements from the RBOC, with the CLEC retaining the responsibility for integrating the elements together in order to complete connections and provide service.

Velocity of Propagation: The speed at which a signal travels from a sender, through a transmission line and finally arrives at the receiver.

Voice Frequency: Any of the frequencies that are audible to the human ear. For telephone transmission the range is generally from 300 to 3,400 Hz.

Volt: The standard unit of electromotive force or electrical pressure. One volt is the amount of pressure that will cause one ampere of current to flow through one ohm of resistance.

Voltage: The electromotive force or electrical pressure, measured in volts.

Voltage Breakdown: Test to determine voltage at which insulation fails at a given temperature and time.

Voltage Rating: The highest voltage that may be continuously applied to a wire in conformance with standards or specifications.

VW-1: A test used by Underwriters Laboratories to classify wires and cables with regard to their resistance to burning. (Formerly designated as FR-1.)

Wall Thickness: A term expressing the thickness of a layer of applied insulation or jacket.

Wide Area Network (WAN): A network spanning a broad geographical area, providing data communications between computers and peripherals, and switching equipment.

Wire: 1) A single piece of slender, flexible metal, ranging in approximate size from a piece that is difficult to bend by hand to a fine thread. 2) Several wires as in (1) twisted together.

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