

SPECIALIZED UTILITY CABLES

EXTREMELY FLEXIBLE STRANDING



Specialized Utility Cables

Index

- Mobile Substation Power Cable (Type SH) 2-3
- Grounds and Jumpers
 - Flexible Grounding Cable 4
 - Lead Covered Grounding Cable 5
 - Red Jumper 6-7



Nexans AmerCable believes the information presented throughout this catalog to be reliable and current. All information is subject to change without notice. The information listed is approximate, and is presented only as a guide for product selection. We make no claims or warranties for the suitability of any product for any particular application.

AmerCable® is a registered trademark of AmerCable Incorporated



Made in America

© 2020, AmerCable Incorporated

Harsh operating environments require cables engineered for longer service life

No matter what type of environment you operate in, Nexans AmerCable has a cable productivity solution for you. Our innovatively engineered and manufactured **Industrial Cable Family** is designed for your toughest conditions. As a leading producer of specialized utility cables in North America, Nexans AmerCable is dedicated to producing:

- cables that last longer in difficult operating environments
- cables designed to help provide greater levels of safety and productivity



CABLE INNOVATION

- Designing insulating and jacketing materials that are more flexible with greater resistance to abrasion and moisture
- Cable constructions that last longer – providing reduced down time for increased productivity
- New product development that addresses environmental, safety and cost reduction issues specific to your application.

OPERATING EXCELLENCE

- The industry leader in on-time delivery. For our current delivery rate, visit our website at www.amercable.com
- Standard lead-time of 8 to 10 weeks
- Urgent response shipment capability of 2 to 4 weeks
- AmerCable is an ISO-9001 certified manufacturer



HANDS-ON FIELD SUPPORT

Our experienced field application engineers are available for on-site evaluation and solutions. They also conduct education and training sessions that address safety, splicing and cable handling issues.

www.AmerCable.nexans.com

e-mail: industrial.sales@nexans.com

MOBILE SUBSTATION POWER CABLE • TYPE SH SINGLE CONDUCTOR • 5000 TO 35000 VOLTS • 90°C

CONDUCTOR

Flexible tin-coated soft annealed bunch stranded copper meeting ASTM B-33

CONDUCTOR SHIELD

Combination semi-conducting tape and/or extruded semiconductive thermosetting material

INSULATION SHIELD

Tin-coated copper braid applied over a semiconductive tape (5-15kV). Extruded semi-conductive thermosetting material (25-35kV)

INSULATION

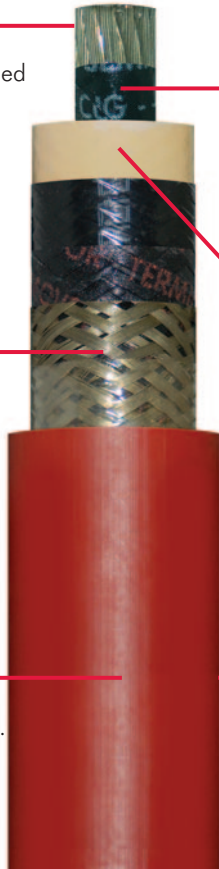
Heat, moisture and ozone resisting 90°C Ethylene-Propylene rubber (EPR) meeting ICEA S-75-381/NEMA WC58

JACKET

CPE meeting ICEA S-75-381/NEMA WC58. Consult factory for availability of other jacket materials.

IDENTIFICATION

Cable shall be surface printed showing manufacturer, size, voltage rating, type and temperature rating



APPLICATION

These single conductor portable power cables are extremely flexible and specifically designed for use on mobile substation equipment. The Type SH cable is often necessary for supplying power while replacing damaged utility poles or during routine maintenance of substations.

FEATURES

- Extremely flexible stranding for ease of bending
- The conductor shield is bonded to the insulation – providing easy, clean stripping
- Jacket is heat, oil, flame and chemical resistant
- Continuous conductor temperature 90°C
- Jackets available in voltage colors, yellow (5 & 8kV), orange (15kV), red (25 & 35kV). Consult factory for availability of other colors.

RATINGS & APPROVALS

- ASTM B-33: Standard Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes
- ICEA S-75-381/NEMA WC-58: Portable and Power Feeder Cables for Use in Mines and Similar Applications
- UL 1072 Medium Voltage Cable MV-105 (pending)

CSA approval available by special order



5KV SINGLE CONDUCTOR PORTABLE POWER CABLE – TYPE SH

Part No. 37-550-	Size AWG/kcmil	Minimum Wires per Conductor	Nominal Insulation Thickness in.	Nominal Jacket Thickness in.	Nominal Outside Diameter in.	Approx. Weight lbs. per 1,000 ft.	Ampacity 90°C
002	2	259	.110	.125	0.975	674	190
004	1/0	266	.110	.140	1.058	825	260
005	2/0	323	.110	.140	1.170	1039	300
007	4/0	532	.110	.155	1.300	1393	400
008	250	627	.120	.155	1.330	1477	445
022	350	888	.120	.170	1.484	1926	550
010	500	1221	.120	.190	1.700	2662	695



15KV SINGLE CONDUCTOR PORTABLE POWER CABLE – TYPE SH

Part No. 37-550-	Size AWG/kcmil	Minimum Wires per Conductor	Nominal Insulation Thickness in.	Nominal Jacket Thickness in.	Nominal Outside Diameter in.	Approx. Weight lbs. per 1,000 ft.	Ampacity 90°C
016	2	259	.210	.155	1.203	881	195
017	1/0	266	.210	.155	1.320	1147	260
018	2/0	323	.210	.155	1.350	1226	300
020	4/0	532	.210	.170	1.497	1594	400
021	250	627	.210	.170	1.547	1758	445
009	350	888	.210	.190	1.765	2364	550
024	500	1221	.210	.190	1.900	2937	685

Order Your Type SH Cables Connectorized!

Factory installed assemblies from AmerCable help lower your overall connectivity costs.

- Lugs
- Elbows
- Stress Cones

25KV SINGLE CONDUCTOR PORTABLE POWER CABLE – TYPE SH

Part No. 37-550-	Size AWG/kcmil	Minimum Wires per Conductor	Nominal Insulation Thickness in.	Nominal Jacket Thickness in.	Nominal Outside Diameter in.	Approx. Weight lbs. per 1,000 ft.	Ampacity 90°C
030	1/0	266	.295	.170	1.500	1350	260
031	2/0	323	.295	.170	1.555	1507	300
033	4/0	532	.295	.190	1.713	1909	395
034	250	627	.295	.190	1.763	2085	440
035	350	888	.295	.190	1.886	2517	545
037	500	1221	.295	.205	2.048	3168	680

35KV SINGLE CONDUCTOR PORTABLE POWER CABLE – TYPE SH

Part No. 37-550-	Size AWG/kcmil	Minimum Wires per Conductor	Nominal Insulation Thickness in.	Nominal Jacket Thickness in.	Nominal Outside Diameter in.	Approx. Weight lbs. per 1,000 ft.	Ampacity 90°C
050	1/0	266	.380	.170	1.175	1632	260
051	2/0	342	.380	.205	1.840	1898	300
053	4/0	532	.380	.205	1.915	2235	395
054	250	627	.380	.205	1.975	2509	440
055	350	888	.380	.205	2.100	2901	545
057	500	1221	.380	.205	2.280	3396	680

- Cable diameters and weights are subject to +/- 5% manufacturing tolerance
- Ampacity is calculated with a 90°C conductor temperature and 40°C ambient air, per 2008 NEC, Table 310.69

37-003

FLEXIBLE GROUNDING CABLE

CLEAR • YELLOW • OTHER COLORS



JACKET

Transparent thermoplastic for ease of installation and flexible use at temperatures ranging from -25°C to 90°C. This material meets Type II requirements of ASTM F 855. Material meeting a -50°C cold bend is available on a special order basis.

CONDUCTOR

Bunched strands of bare copper annealed dead soft in accordance with ASTM B-3. Other strand is available upon request.

IDENTIFICATION

A marker tape printed AMERCABLE-SIZE-GROUNDING CABLE is readily visible under the transparent jacket.

APPLICATION

Flexible jacketed cable used for grounding jumpers installed temporarily for protective grounding of de-energized circuits.

FEATURES

- Transparent jacket provides easy confirmation of continuity and ease of trouble shooting
- Extremely flexible stranding for ease of bending and installation
- Transparent thermoplastic jacket for installation and flexible use at temperatures ranging from -25°C to 90°C
- Jacket material meets Type II requirements of ASTM F-855
- Jacket material meeting Type I (-50°C) requirements of ASTM F-855 available upon request

RATINGS & APPROVALS

- ASTM B-3: Standard Specification for Soft or Annealed Copper Wire
- ASTM F-855: Standard Specifications for Temporary Protective Grounds to Be Used on De-energized Electric Power Lines and Equipment

Part No. 37-003-	Size AWG/ kcmil	Minimum Wires per Conductor	Nominal Jacket Thickness in.	Nominal Outside Diameter in.	Approx. Weight lbs. per 1,000 ft.
002	2	665	0.100	0.530	293
010	1/0	1050	0.100	0.650	458
020	2/0	1323	0.105	0.700	557
040	4/0	2107	0.110	0.850	857

• Cable diameters and weights are subject to +/- 5% manufacturing tolerance

Other ground jacketing materials and colors available. Consult factory for details.

Order Your Grounding Cables with

Factory Installed Connectors

SAVE TIME **SAVE MONEY**

37-409

LEAD COVERED GROUNDING CABLE

CONDUCTOR

Uncoated annealed copper meeting the requirements of ASTM B-3



LEAD SHEATH

An extruded layer of lead for enhanced performance

APPLICATION

A grounding conductor for use in power distribution systems where a lead sheath is required over the copper conductor to provide additional protection against corrosion. Also suitable for use in lightning protection applications.

FEATURES

- Lead sheath offers rugged, durable construction

RATINGS & APPROVALS

- ASTM B-3: Standard Specification for Soft or Annealed Copper Wire
- ASTM B-8: Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard or Soft

Part No. 37-409-	Size AWG/ kcmil	Minimum Wires per Conductor	Nominal Lead Sheath Thickness in.	Nominal Outside Diameter in.	Approx. Weight lbs. per 1,000 ft.
004	4	7	0.045	0.319	366
005	2	7	0.045	0.377	508
366	1/0	19	0.065	0.497	836
020	2/0	19	0.065	0.542	984
360	3/0	19	0.065	0.600	1202
615	4/0	19	0.065	0.648	1420
250	250	37	0.065	0.694	1528
351	350	37	0.065	0.797	1985
147	400	37	0.065	0.842	2478
361	500	37	0.065	0.931	2684

• Cable diameters and weights are subject to +/- 5% manufacturing tolerance

RED JUMPER CABLE

FLEXIBLE • 5000/15000 VOLTS • 90°C

CONDUCTORS

Flexible-stranded, tinned, annealed coated copper per ASTM B-33

CONDUCTOR SHIELD

Combination semiconducting tape and/or extruded semiconductive thermosetting material. The semiconductive tape prevents any penetration of the extruded conductor shield into the inner layers of the flexible conductor.

JACKET

Thermosetting bright red jacket, 90°C rated



INSULATION

Heat resisting 90°C Ethylene-Propylene rubber (EPR), meeting ASTM D-2802. It has excellent dielectric properties and is highly resistant to heat, moisture, and ozone.

IDENTIFICATION

Cable is surface printed showing manufacturer's name, size, voltage rating, and temperature rating

APPLICATION

Portable dual rated 5000/15000 volt jumper cables can be used as temporary jumper leads for portable or mobile substations, or for temporarily by-passing damaged or faulted sections of power cable. The finely stranded conductor provides an exceptionally flexible cable that can be easily trained and connected in confined areas such as transformer vaults and switch gear enclosures.

Features

- Extremely flexible stranding
- Bright red thermosetting jacket
- The conductor shield is bonded to the insulation – providing easy, clean stripping
- The 90°C insulation has excellent dielectric properties and is highly resistant to heat, moisture and ozone.

RATINGS & APPROVALS

- ASTM B-33: Standard Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes
- ASTM D2802: Standard Specification for Ozone-Resistant Ethylene-Alkene Polymer Insulation for Wire and Cable

APPLICATION NOTE

Jumper cables should NOT be used in place of normal high voltage cables.

They should be isolated in areas where contact with people is limited. Because jumper cables cannot be protected against prolonged contact with other conductors or grounds by shielding, these cables must be positioned away from contact with grounds, transformer cases, cross-arms, etc., to avoid possible high stress and capacitance leakage. Cables should be installed with at least one cable diameter of separation between adjacent conductors and between conductors and all metallic and/or electrically grounded parts. These cables are not intended for permanent service.

37-221 • RED JUMPER CABLE • 5000/15000 VOLTS

Part No. 37-221-	Size AWG/ kcmil	Minimum Wires per Conductor	Nominal Insulation Thickness in.	Nominal Jacket Thickness in.	Nominal Outside Diameter in.	Approx. Weight lbs. per 1,000 ft.	Ampacity 90°C at 5kV/15 kV
008	8	133	0.210	0.065	0.777	310	83/NA*
006	6	133	0.210	0.065	0.816	360	110/110
004	4	259	0.210	0.065	0.875	449	145/150
003	3	259	0.210	0.065	0.903	495	170/170
002	2	259	0.210	0.065	0.944	563	190/195
001	1	259	0.210	0.065	0.981	635	225/225
010	1/0	266	0.210	0.065	1.040	742	260/260
020	2/0	323	0.210	0.065	1.090	869	300/300
030	3/0	418	0.210	0.065	1.133	976	345/345
040	4/0	532	0.210	0.065	1.215	1181	400/400
250	250	627	0.210	0.065	1.216	1281	445/445
350	350	888	0.210	0.065	1.327	1692	550/550
500	500	1221	0.210	0.065	1.456	2192	695/685

- 8 AWG Jumper recommended only for use at 5kv
- Cable diameters and weights are subject to +/- 5% manufacturing tolerance
- Ampacity is calculated with a 90°C conductor temperature and 40°C ambient air, per 2008 NEC, Table 310.69

Order Your Red Jumper Cable with
**Factory Installed
 Connectors**

SAVE
TIME

SAVE
MONEY

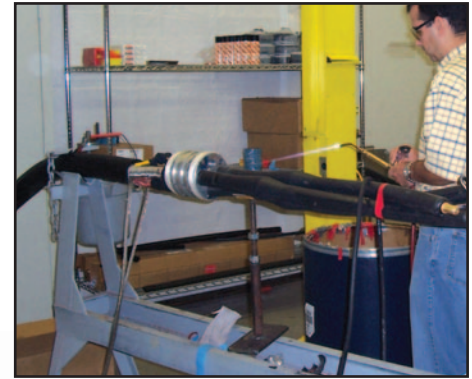


FACTORY INSTALLED CABLE ASSEMBLIES

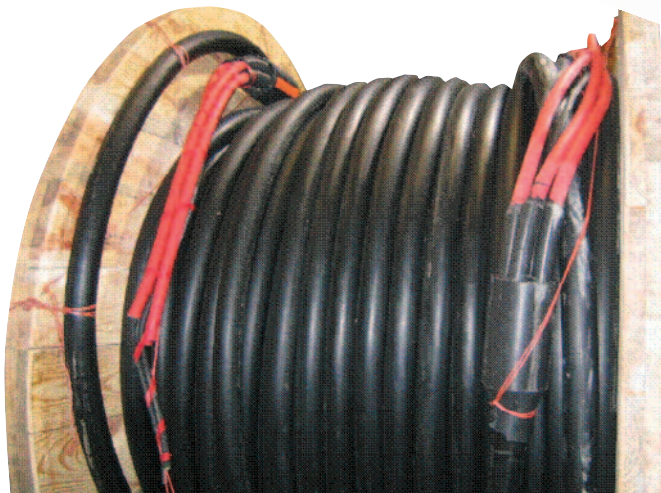


Factory Installed Cable Assemblies from Nexans AmerCable are professionally assembled in our El Dorado, Arkansas manufacturing facility. Our team of experienced handlers join cables and connectors that match your exact application spec. Our assemblies are designed, built and tested to perform upon arrival in your harshest operating conditions.

Factory prepared cable assemblies are a reliable way to lower your overall cable connectivity costs through enhanced reliability, reduced handling and lower installation time.



- LUGS
- ELBOWS
- STRESS CONES



*Save money through
reduced prep, handling
and installation time.*

SPECIALIZED UTILITY CABLES

EXTREMELY FLEXIBLE STRANDING

Nexans AmerCable manufactures high quality jacketed electrical cables for a wide variety of specialized industrial and utility applications.



Nexans AmerCable is an ISO 9001 certified cable manufacturer that combines leading-edge technology, proven manufacturing techniques, and high quality service to deliver the finest industrial and utility cable products available.



Made in America

Nexans AmerCable serves a worldwide customer base from our manufacturing facility in El Dorado, Arkansas. Our professional field engineering and sales force work directly with customers, or in partnership with our network of independent distributors, to identify and fulfill your specific cable requirements



Nexans AmerCable

350 Bailey Road • El Dorado, AR USA
800-643-1516 • 870-862-4919 • Fax: 870-862-9613
email: industrial.sales@nexans.com
www.AmerCable.nexans.com

© 2020, AmerCable Incorporated 9_20

FOLLOW US!

