



Southwire[®]
Industrial Cable



CANADIAN PRODUCT CATALOG

SOUTHWIRE THE PEOPLE

Southwire started as a small operation in Carrollton, Georgia with 12 employees in 1950. Today, the company employs more than 3,500 people at sales offices, distribution centers and manufacturing facilities throughout North America. Southwire's employees are dedicated to the company's founding principles of developing quality products matched with quality service. **While others have come and gone, and come again, Southwire has remained a constant and reliable manufacturer and supplier of wire and cable products for more than 50 years.**

SOUTHWIRE THE PRODUCTS

Southwire provides a full line of products, in **both copper and aluminum**, for a wide range of applications. The company leads the industry in new and innovative products that help simplify installation, saving time and money. In addition to its standard product line, Southwire can also make custom products offering its customers the most complete line of products for almost any requirement or situation. No matter what the commercial or industrial application requires, you need look no farther. Southwire has just the right MC and flexible conduit wire and cable product you're looking for.

SOUTHWIRE THE SERVICE

With 9 distribution centers strategically located across the country, Southwire can fill all of your wire and cable product needs where you need them, when you need them, resulting in savings of time and money. The broad product range, combined with these distribution centers mean you **get more products in fewer deliveries**. Southwire's multiple manufacturing plants give Southwire the ability to offer the **widest range of custom armored products** in the industry.

SOUTHWIRE THE INNOVATION

As a technology leader, Southwire has developed new manufacturing processes to produce quality wire and cable products more efficiently. This means a lower cost product for you. In addition, **Southwire's on-site D.B. Cofer Technology Center leads the industry in new product innovation** that simplifies the installation process for contractors. This on-site research and development facility continues to keep Southwire Company a few steps ahead of the competition.

SOUTHWIRE THE COMPANY

Since 1950, Southwire has been on the move, growing and evolving into North America's largest building wire producer and supplier. With innovation backed by experience, Southwire leads the industry with the broadest line of wire and cable products, from copper and aluminum MC cable to industrial power cable and utility products.



Southwire[®]

THE LEADING MANUFACTURER OF WIRE AND CABLE

INNOVATION, EXPERIENCE, RELIABILITY... FOR MORE THAN 50 YEARS

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SOUTHWIRE

Solid company. Dedicated people. Quality products.
Dependable service. Product innovation. Made in the USA.

**SOUTHWIRE COMPANY OFFERS PRODUCTS
THAT OFFER SOLUTIONS.**

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ENVIRO LV™ TYPE TC CONTROL CABLE SOLONON®



Type TC Control Cable

600 Volt Copper
Conductors

No Lead FR-EPR
Insulated Singles

Heat, Moisture and
Sunlight Resistant

No Lead Overall
SOLONON® Jacket

Passes FT-4
Flame Test

APPLICATIONS

Southwire's CSA Enviro LV™ Type TC Control Cable is for use in industrial power or control circuits where small diameter, flame retardant cables are desired. Primary installations include cable trays, raceways, and outdoor locations where supported by a messenger wire. Type TC Control Cable is also listed for direct burial and Class 1 control circuits. Constructions with 3 or more conductors are listed for exposed runs (TC-ER). Conductors may be used in wet or dry locations at temperatures not to exceed 90°C.

SPECIFICATIONS

Southwire's CSA Enviro LV™ Type TC Control Cable meets or exceeds the applicable requirements of the following standards and specifications:

- ASTM - (All applicable standards)
- CSA Standard 239/230
- ICEA S-58-679 - Control Cable Conductor Identification (Method 1, Table 2 - colored compounds with tracer colors - excluding white and green)
- ICEA T-29-520 - Vertical Cable Tray Flame Test (210,000 BTU/hr)
- IEEE 1202 - Flame Testing of Cables for Use in Cable Tray in Industrial and Commercial Occupancies (70,000 BTU/hr)
- ICEA S-95-658 (NEMA WC 70) - Nonshielded 0-2 kV Cables
- Passes FT-4 Flame Test

CONSTRUCTION

Southwire's CSA Enviro LV™ Type TC Control Cable is available in sizes 14 AWG through 10 AWG, with multiconductor constructions of 2 through 37 conductors. The product uses Type RW90 rated VW-1 conductors. Individual conductors are bare annealed copper covered with no lead FR-EPR insulation. The overall jacket consists of a flame retardant, moisture, and sunlight resistant no lead SOLONON®. SOLONON® is a low-smoke, non-halogen, flame retardant polyethylene jacket.

WEIGHTS AND MEASUREMENTS

NUMBER OF CONDUCTORS*	JACKET THICKNESS (inch)	AVERAGE OVERALL DIAMETER		APPROXIMATE WEIGHT	
		inch	mm	lbs/1000 ft	kg/km
14 AWG (7 STRANDS) TYPE RW90 CONDUCTORS					
2	0.045	0.349	8.90	64	94
3	0.045	0.370	9.40	88	129
3 w/Ground	0.045	0.403	10.2	106	157
4	0.045	0.403	10.2	106	157
4 w/Ground	0.045	0.440	11.2	127	186
5	0.045	0.440	11.2	127	186
7	0.045	0.479	12.2	166	245
9	0.060	0.588	14.9	225	332
12	0.060	0.659	16.7	289	424
15	0.060	0.730	18.6	351	517
19	0.060	0.768	19.5	426	630
25	0.080	0.938	23.8	588	866
30	0.080	0.991	25.2	686	1012
37	0.080	1.067	27.1	827	1217
12 AWG (7 STRANDS) TYPE RW90 CONDUCTORS					
2	0.045	0.384	9.80	86	127
3	0.045	0.408	10.4	117	172
3 w/Ground	0.045	0.445	11.3	149	219
4	0.045	0.445	11.3	149	219
4 w/Ground	0.045	0.487	12.4	174	255
5	0.045	0.487	12.4	174	255
7	0.060	0.562	14.3	246	363
9	0.060	0.651	16.5	310	457
12	0.060	0.732	18.6	400	589
15	0.060	0.813	20.7	492	721
19	0.080	0.896	22.8	634	934
25	0.080	1.043	26.5	819	1207
30	0.080	1.104	28.0	962	1418
37	0.080	1.190	30.2	1161	1714
10 AWG (7 STRANDS) TYPE RW90 CONDUCTORS					
2	0.045	0.431	11.0	117	172
3	0.045	0.459	11.7	163	239
3 w/Ground	0.045	0.502	12.8	208	306
4	0.045	0.502	12.8	208	306
4 w/Ground	0.060	0.581	14.8	263	387
5	0.060	0.581	14.8	263	387
7	0.060	0.632	16.1	348	514
9	0.060	0.736	18.7	441	651
12	0.080	0.870	22.1	605	892
15	0.080	0.964	24.5	740	1091
19	0.080	1.014	25.7	911	1340
25	0.080	1.184	30.1	1179	1739
30	0.080	1.254	31.9	1393	2052
37	0.080	1.355	34.4	1691	2491

*Southwire offers in three and four conductor cables in sizes 14, 12, 10 AWG with a green insulated ground wire using ICEA color code Method 1, Table 2.

ENVIRO LV™ TYPE TC POWER CABLE RW90 SOLONON® THREE CONDUCTOR



600 Volt

Copper Conductors

**No Lead EPR Insulated
Singles Rated RW90**

**Three Conductors
With Ground**

**Heat, Moisture and
Sunlight Resistant**

**No Lead Overall
SOLONON® Jacket**

**Passes FT-4
Flame Test**

APPLICATIONS

Southwire's Enviro LV™ Type TC Power Cable is used to supply power to motors, or for connection to other power devices in industrial settings. Primary installations include cable trays, raceways, and outdoor locations where supported by a messenger wire. Type TC Power Cable is listed for direct burial or in underground ducts and Class 1 control circuits. This cable may be used in wet and dry locations at temperatures not to exceed 90°C. 6 and 8 AWG constructions with insulated grounds (standard) and 4 AWG and larger with bare or insulated ground are listed for exposed runs (ER).

SPECIFICATIONS

Southwire's Enviro LV™ Type TC Power Cable meets or exceeds the applicable requirements of the following standards and specifications:

- ASTM - (All applicable standards)
- CSA Standard 239/230
- ICEA S-58-679 - Control Cable Conductor Identification (Method 4 - single color (black) compounds with surface printing of numbers)
- Passes FT-4 Flame Test
- ICEA T-29-520 - Vertical Cable Tray Flame Test (210,000 BTU/hr)
- IEEE 1202 - Flame Testing of Cables for Use in Cable Tray in Industrial and Commercial Occupancies (70,000 BTU/hr)

Southwire's Type TC Power Cable meets and exceeds all construction requirements of ICEA S-95-658 (NEMA WC 70) - Nonshielded 0-2 kV Cables, with testing frequencies based on UL requirements.

CONSTRUCTION

Southwire's Enviro LV™ Type TC Power Cable is available in sizes 8 AWG through 750 kcmil and is manufactured using Type RW90 conductors. Individual conductors are bare annealed copper covered with a no lead Ethylene Propylene Rubber (EPR) insulation. The overall jacket consists of a flame retardant, moisture and sunlight resistant no lead SOLONON® jacket. SOLONON® is a low-smoke, non-halogen jacket material.



CANADIAN

WEIGHTS AND MEASUREMENTS

SIZE (AWG or kcmil)	STRANDING	GROUND CONDUCTOR SIZE (AWG)	JACKET THICKNESS (inch)	AVERAGE OVERALL DIAMETER		APPROXIMATE WEIGHT		ALLOWABLE AMPACITIES*
				inch	mm	lbs/1000 ft	kg/km	90°C
TYPE TC-POWER CABLE THREE XLP (RW90) CONDUCTORS WITH GROUND								
8	7	10	0.060	0.681	17.3	335	491	55
6	7	8	0.060	0.766	19.4	452	697	75
4	7	8	0.060	0.797	20.2	619	901	95
2	7	6	0.080	0.960	24.4	972	1420	130
1	19	6	0.080	1.100	27.9	1187	1746	150
1/0	19	6	0.080	1.182	30.1	1445	2115	170
2/0	19	6	0.080	1.277	32.5	1773	2536	195
3/0	19	4	0.080	1.385	35.2	2168	3177	225
4/0	19	4	0.080	1.506	38.2	2617	3839	260
250	37	4	0.080	1.653	42.0	3067	4496	290
350	37	3	0.110	1.935	49.1	4273	6277	350
500	37	2	0.110	2.214	56.2	5902	8687	430
750	61	1	0.110	2.663	67.6	8543	12711	535
*Ampacities are based on CEC.								

ENVIRO LV™ TYPE TC POWER CABLE RW90 SOLONON® THREE CONDUCTOR

ENVIRO LV™ TYPE TC POWER CABLE RW90 SOLONON® FOUR CONDUCTOR



Type TC Power Cable

**600 Volt Copper
Conductors**

**No Lead EPR Insulated
Singles Rated RW90**

**Four Conductors
With Ground**

**Heat, Moisture, and
Sunlight Resistant**

**No Lead Overall
SOLONON® Jacket**

**Passes FT-4
Flame Test**

APPLICATIONS

Southwire's CSA Enviro LV™ Type TC Power Cable is used to supply power to motors, or for connection to other power devices in industrial settings. Primary installations include cable trays, raceways, and outdoor locations where supported by a messenger wire. Type TC is approved for direct burial and for use in Class 1 control circuits. This cable may be used in wet and dry locations at temperatures not to exceed 90°C. 6 and 8 AWG constructions with insulated grounds (standard) and 4 AWG and larger with bare or insulated ground are listed for exposed runs (ER).

SPECIFICATIONS

Southwire's CSA Enviro LV™ Type TC Power Cable meets or exceeds the applicable requirements of the following standards and specifications:

- ASTM - (All applicable standards)
- CSA Standard 239/230
- ICEA S-58-679 - Control Cable Conductor Identification (Method 4 - single color compounds with surface printing of numbers)
- ICEA T-29-520 - Vertical Cable Tray Flame Test (210,000 BTU/hr)
- IEEE 1202 - Flame Testing of Cables for Use in Cable Tray in Industrial and Commercial Occupancies (70,000 BTU/hr)

Southwire's Type TC Power Cable meets and exceeds all construction requirements of ICEA S-95-658 (NEMA WC 70) - Nonshielded 0-2 kV Cables, with testing frequencies based on UL requirements.

CONSTRUCTION

Southwire's CSA Enviro LV™ Type TC Power Cable is available in sizes 8 AWG through 750 kcmil and is manufactured using Type RW90 conductors. Individual conductors are bare annealed copper covered with a no lead Ethylene Propylene Rubber (EPR) insulation. The overall jacket consists of a flame retardant, moisture and sunlight resistant no lead SOLONON® jacket. SOLONON® is a low-smoke, non-halogen material.



CANADIAN

WEIGHTS AND MEASUREMENTS

SIZE (AWG or kcmil)	STRANDING	GROUND CONDUCTOR SIZE (AWG)	JACKET THICKNESS (inch)	AVERAGE OVERALL DIAMETER		APPROXIMATE WEIGHT		ALLOWABLE AMPACITIES*
				inch	mm	lbs/1000 ft	kg/km	90°C
8	7	10	0.060	0.747	19.0	411	601	55
6	7	8	0.080	0.882	22.4	594	912	75
4	7	8	0.080	0.917	23.3	822	1193	95
2	7	6	0.080	1.054	26.8	1219	1772	130
1	19	6	0.080	1.210	30.7	1521	2236	150
1/0	19	6	0.080	1.307	33.2	1843	2688	170
2/0	19	6	0.080	1.411	35.8	2236	3272	195
3/0	19	4	0.080	1.529	38.8	2761	4084	225
4/0	19	4	0.110	1.724	43.8	3495	5100	260
250	37	4	0.110	1.888	48.0	4081	5996	290
350	37	3	0.110	2.137	54.3	5525	8115	350
500	37	2	0.110	2.448	62.2	7655	11252	430

*Ampacities are based on CEC.

ENVIRO LV™ TYPE TC POWER CABLE RW90 SOLONON® FOUR CONDUCTOR

CSA TECK 90

CONTROL CABLE



600 V Multiconductor

Teck 90 Cable

14-10 AWG

XLP Insulation

Aluminum
Interlocked Armor

Inner and Outer
PVC Jackets

Rated HL
(Hazardous Locations)

Passes FT-4
Flame Test

APPLICATIONS

For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet or dry locations. Cable is sunlight resistant. For direct earth burial. Typical applications are for power, lighting and control circuits in: pulp and paper mills, steel mills, food processing plants, commercial centers, mines, generating stations, refineries, industrial plants and chemical plants.

SPECIFICATIONS

Southwire's Teck 90 Control Cable meets CSA C22.2, No. 131.

CONSTRUCTION

- **Conductor**
Class B stranded, bare, soft copper.
- **Insulation**
Cross-Linked Polyethylene (XLP) as approved by CSA on Types RW90 XLP -40°C per CSA C22.2, No. 131; LL90458, color code: 2/C black, white; 3/C red, black, blue; 4/C red, black, blue, white; more than 4/C numbered.
- **Grounding Conductor**
An uninsulated Class B stranded grounding conductor is included in the cable assembly.
- **Assembly**
Multiple conductor cables are assembled with suitable fillers and binder tape.
- **Inner Jacket**
Polyvinyl Chloride (PVC) heat, flame and moisture-resistant jacket, rated -40°C.
- **Armor**
Aluminum interlocking armor.
- **Overall Jacket**
Polyvinyl Chloride (PVC) heat, flame and moisture-resistant jacket, rated -40°C, the standard color is black but colored jackets will be provided on request. Meets Flame Test in accordance with Ontario Hydro Spec. L-891 SM-77, meets Flame Test in IEEE 383 and FT-4 or better. Sunlight Resistant.
- **Ampacity**
Based on not more than three conductors in raceway or cable at an ambient temperature of 30°C per Table 2, Column 4 of the Canadian Electrical Code, these ampacities are also based on a minimum one cable O.D. spacing between adjacent cables, (for a four conductor cable the fourth conductor is considered to be the neutral of a three-phase, 4-wire-system).
- **Temperature**
-40°C to 90°C
- **Voltage**
600 V



CANADIAN

WEIGHTS AND MEASUREMENTS

SIZE	NUMBER OF CONDUCTORS	GROUND WIRING	APPROXIMATE DIAMETER INNER JACKET (inch)	APPROXIMATE ARMOR DIAMETER (inch)	APPROXIMATE DIAMETER OUTER JACKET (inch)	APPROXIMATE WEIGHT lbs/1000 ft
14	2	14	0.361	0.571	0.651	187
14	3	14	0.382	0.592	0.672	215
14	4	14	0.415	0.625	0.705	240
14	5	14	0.452	0.662	0.742	265
14	6	14	0.490	0.700	0.781	293
14	7	14	0.490	0.700	0.781	310
14	8	14	0.561	0.771	0.851	360
14	10	14	0.650	0.860	0.940	423
14	12	14	0.671	0.881	0.961	465
14	15	14	0.742	0.952	1.032	537
14	19	14	0.780	1.100	1.180	675
14	20	14	0.820	1.140	1.220	703
14	25	14	0.949	1.269	1.350	874
12	2	12	0.396	0.606	0.686	218
12	3	12	0.420	0.630	0.710	252
12	4	12	0.457	0.667	0.747	290
12	10	12	0.720	0.930	1.011	529
12	12	12	0.744	0.954	1.034	589
12	15	12	0.865	1.185	1.266	788
12	20	12	0.953	1.273	1.354	950
10	3	12	0.470	0.680	0.761	314
10	4	12	0.514	0.724	0.804	367

CSA TECK 90 CONTROL CABLE

CSA TECK 90

POWER CABLE



1000 V Multiconductor

Teck 90 Cable

8 and Larger AWG

XLP Insulation

Aluminum
Interlocked Armor

Inner and Outer
PVC Jackets

Rated HL
(Hazardous Locations)

Passes FT-4
Flame Test

APPLICATIONS

For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet or dry locations. Cable is sunlight resistant. For direct earth burial. Typical applications are for power, lighting and control circuits in: pulp and paper mills, steel mills, food processing plants, commercial centers, mines, generating stations, refineries, industrial plants and chemical plants.

SPECIFICATIONS

Southwire's Teck 90 Power Cable meets CSA C22.2, No. 131.

CONSTRUCTION

- **Conductor**
Class B stranded, bare, soft copper
- **Insulation**
Cross-Linked Polyethylene (XLP) as approved by CSA on Types RW90 XLP -40°C per CSA C22.2, No. 131; LL90458, color code: 2/C black, white; 3/C red, black, blue; 4/C red, black, blue, white; more than 4/C numbered
- **Grounding Conductor**
An uninsulated Class B stranded grounding conductor is included in the cable assembly.
- **Assembly**
Multiple conductor cables are assembled with suitable fillers and binder tape.
- **Inner Jacket**
Polyvinyl Chloride (PVC) heat, flame and moisture-resistant jacket, rated -40°C
- **Armor**
Aluminum interlocking armor
- **Overall Jacket**
Polyvinyl Chloride (PVC) heat, flame and moisture-resistant jacket, rated -40°C, the standard color is black but colored jackets will be provided on request. Meets Flame Test in accordance with Ontario Hydro Spec. L-891 SM-77, meets Flame Test in IEEE 383 and FT-4 or better. Sunlight Resistant.
- **Ampacity**
Based on not more than three conductors in raceway or cable at an ambient temperature of 30°C per Table 2, Column 4 of the Canadian Electrical Code, these ampacities are also based on a minimum one cable O.D. spacing between adjacent cables, (for a four conductor cable the fourth conductor is considered to be the neutral of a three-phase, 4-wire-system).
- **Temperature**
-40°C to 90°C
- **Voltage**
1000 V



CANADIAN

WEIGHTS AND MEASUREMENTS

SIZE	NUMBER OF CONDUCTORS	GROUND WIRING	APPROXIMATE DIAMETER INNER JACKET (inch)	APPROXIMATE ARMOR DIAMETER (inch)	APPROXIMATE DIAMETER OUTER JACKET (inch)	APPROXIMATE WEIGHT lbs/1000 ft
8	3	10	0.627	0.837	0.917	466
8	4	10	0.685	0.895	0.975	553
6	3	8	0.768	1.088	1.168	707
6	4	8	0.883	1.203	1.283	888
4	3	8	0.907	1.227	1.308	958
4	4	8	0.994	1.314	1.394	1144
3	3	6	0.965	1.285	1.365	1140
3	4	6	1.058	1.378	1.458	1351
2	3	6	1.030	1.350	1.430	1305
2	4	6	1.131	1.451	1.531	1574
1	3	6	1.211	1.531	1.629	1642
1	4	6	1.333	1.653	1.751	2009
1/0	3	6	1.295	1.615	1.713	1913
1/0	4	6	1.427	1.747	1.845	2351
2/0	3	6	1.390	1.710	1.808	2255
2/0	4	6	1.533	1.863	1.962	2848
3/0	3	4	1.498	1.818	1.916	2695
3/0	4	4	1.654	1.984	2.082	3412
4/0	3	4	1.619	1.949	2.047	3268
4/0	4	4	1.849	2.179	2.277	4212
250	3	4	1.826	2.156	2.254	3885
250	4	4	2.013	2.343	2.464	4878
300	3	4	1.940	2.270	2.391	4509
300	4	4	2.141	2.471	2.592	5636
350	3	3	2.048	2.378	2.499	5119
350	4	3	2.262	2.592	2.712	6416
500	3	3	2.327	2.657	2.777	6802
500	4	3	2.573	2.903	3.024	8602

CSA TECK 90 POWER CABLE

CSA CT1-09ET



5 kVU or 8 kVU
Type MV-105

Copper Conductor

Thermosetting
Conductor Shield

EPR Insulation

Thermosetting
Insulation Shield

Copper Tape Shield

PVC Jacket

CSA Approved

Sizes 1/0 AWG and
Larger Listed for CT Use

Passes FT-4
Flame Test

APPLICATIONS

Southwire's CSA CT1-09ET Type MV-105 Cable is for use in aerial, direct burial, cable trays, conduit, and underground duct installations as permitted by the Canadian Electrical Code. These cables are capable of operating continuously at a conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 5,000 V, 133% (ungrounded system) and 8,000 V 100% insulation level (grounded system). Maximum sidewall pressure is 1,000 lbs.

SPECIFICATIONS

Southwire's CSA CT1-09ET Type MV-105 Cable is manufactured and tested in accordance with the latest revisions of the following standards and specifications:

- CSA SPEC C68.3
- ICEA S-93-639 (NEMA WC 74) - 5-46 kV Shielded Power Cable for Use in the Transmission & Distribution of Electric Energy.
- ICEA S-97-682 (when requested) 5-46 kV Standard for Utility Shielded Power Cable.
- Passes FT-4 - Flame Test

Certified qualification tests were performed in accordance with the requirements of AEIC CS-8. Cable has fully met the qualification testing requirements of AEIC CS-8.

CONSTRUCTION

Southwire's CSA CT1-09ET Type MV-105 Cable offers flexible, easy bending insulation, easy cable preparation, fast stripping thermosetting insulation shield, 105°C continuous operating temperature, 100% shield coverage, and it is triple extruded. Cable is sunlight resistant, suitable for direct burial, and listed for cable tray use in sizes 1/0 and larger.

• Scope

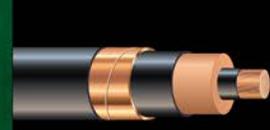
This specification covers single conductor EPR (ethylene propylene rubber) insulated, shielded, thermoplastic jacketed power cable for use in aerial, direct burial, cable trays, conduit, and underground duct installations. This cable is capable of operating continuously at a conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and is rated at 5,000 V, 133% insulation level, and 8,000 V, 100% insulation level.

• Standards

The following standards shall form a part of this specification—CSA Standard C68.3 for Medium Voltage Power Cable and ICEA S-93-639 (NEMA WC 74) 5-46 kV Shielded Power Cable for Use in the Transmission & Distribution of Electric Energy.

• Conductor

The conductor shall be Class B compressed soft or annealed copper in accordance with ASTM Specs B3 and B8 and ICEA Part 2, Section 2.1 and 2.5.



CANADIAN

CSA CT1-09ET

WEIGHTS AND MEASUREMENTS

PRODUCT CODE	SIZE	CONDUCTOR DIAMETER		.115" (2.92mm) INSULATION DIAMETER		EXTRUDED INSULATION SHIELD DIAMETER		MINIMUM POINT JACKET THICKNESS		APPROXIMATE OVERALL DIAMETER		APPROXIMATE NET WEIGHT		ALLOWABLE AMPACITIES ¹	
		AWG or kcmil	inch [†]	mm	inch ^{**}	mm	inch [†]	mm	inch	mm	inch	mm	lbs/1000 ft	kg/km	DUCT
CSA CT1-09ET-002	2	0.283	7.190	0.547	13.89	0.623	15.82	0.055	1.40	0.759	19.28	455	677	155	145
CSA CT1-09ET-001	1	0.322	8.180	0.608	15.43	0.663	16.83	0.055	1.40	0.799	20.30	525	782	180	175
CSA CT1-09ET-010	1/0	0.362	9.190	0.648	16.45	0.703	17.84	0.070	1.78	0.870	22.10	641	954	210	200
CSA CT1-09ET-020	2/0	0.405	10.29	0.688	17.46	0.743	18.86	0.070	1.78	0.910	23.10	745	1108	235	225
CSA CT1-09ET-030	3/0	0.456	11.58	0.738	18.73	0.793	20.13	0.070	1.78	0.960	24.40	877	1306	270	270
CSA CT1-09ET-040	4/0	0.512	13.00	0.793	20.13	0.848	21.53	0.070	1.78	1.015	25.80	1036	1541	310	305
CSA CT1-09ET-250	250	0.558	14.17	0.850	21.59	0.905	22.99	0.070	1.78	1.070	27.20	1181	1757	345	355
CSA CT1-09ET-350	350	0.661	16.79	0.953	24.19	1.008	25.59	0.070	1.78	1.175	29.80	1543	2297	415	430
CSA CT1-09ET-500	500	0.790	20.07	1.078	27.37	1.133	28.77	0.070	1.78	1.300	33.00	2067	3076	505	530
CSA CT1-09ET-750	750	0.968	24.59	1.265	32.13	1.320	33.53	0.070	1.78	1.487	37.80	2932	4363	630	665
CSA CT1-09ET-1000	1000	1.117	28.37	1.410	35.81	1.465	37.21	0.070	1.78	1.632	41.50	3771	5612	720	770

*Minimum diameter per ASTM Standards. **±0.030" †±0.050" ‡Ampacities are based on the Canadian Electrical Code. Duct ampacities are based per Appendix D, three conductors in one underground duct, 105°C conductor, 20°C earth ambient temperature. Conduit in air ampacities are based per Appendix D, three cables in isolated conduit in air, 105°C conductor, 40°C ambient temperature.

CONSTRUCTION (continued)

- Conductor Shield**

The conductor shall be shielded with an extruded semi-conducting thermosetting polymeric layer over the conductor, applied in tandem with and firmly bonded to the insulation.
- Insulation**

The insulation shall be EPR (ethylene propylene rubber) meeting the requirements of the referenced standards. The nominal thickness shall be 0.115".
- Insulation Shield**

The insulation shall be covered with an extruded layer of semi-conducting thermosetting material which shall be identified as being semi-conducting. Over this layer shall be applied a helically-wrapped 5-mil copper tape with 25% overlap.
- Jacket**

The cable shall be provided with a jacket of black sunlight resistant PVC conforming to the requirements specified for polyvinyl chloride jackets in ICEA. The average thickness shall be in accordance with Table 7-3 of ICEA.
- Identification**

Cable shall be identified by surface printing on the jacket.
- Tests**

Qualification tests shall be conducted in accordance with the requirements of ICEA.

CSA CT1-13ET



15 kVU Type MV-105

Copper Conductor

Thermosetting
Conductor Shield

EPR Insulation

Thermosetting
Insulation Shield

Copper Tape Shield

PVC Jacket

CSA Approved

Sizes 1/0 AWG and
Larger Listed for CT Use

(LTGG) -40°C FT-4
Sunlight Resistant

APPLICATIONS

Southwire's CSA CT1-13ET Type MV-105 Cable is for use in aerial, direct burial, cable trays, conduit, and underground duct installations as permitted by the Canadian Electrical Code. These cables are capable of operating continuously at a conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 15,000 V, 133% insulation level (ungrounded system). Maximum sidewall pressure is 1,000 lbs.

SPECIFICATIONS

Southwire's CSA CT1-13ET Type MV-105 Cable is manufactured and tested in accordance with the latest revisions of the following standards and specifications:

- CSA Spec. C68.3
- ICEA S-93-639 (NEMA WC 74) - 5-46 kV Shielded Power Cable for Use in the Transmission & Distribution of Electric Energy.
- ICEA S-97-682 (when requested) 5-46 kV Standard for Utility Shielded Power Cable.
- Passes FT-4 Flame Test

Certified qualification tests were performed in accordance with the requirements of AEIC CS-8. Cable has fully met the qualification testing requirements of AEIC CS-8.

CONSTRUCTION

Southwire's CSA CT1-13ET Type MV-105 Cable offers flexible, easy bending insulation, easy cable preparation, fast stripping thermosetting insulation shield, 105°C continuous operating temperature, 100% shield coverage, and it is triple extruded. Cable is sunlight resistant, suitable for direct burial, and listed for cable tray use in sizes 1/0 AWG and larger.

• Scope

This specification covers single conductor EPR (ethylene propylene rubber) insulated, shielded, thermoplastic jacketed power cable for use in aerial, direct burial, cable trays, conduit, and underground duct installations. This cable is capable of operating continuously at a conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and is rated at 15,000 V, 133% insulation level (ungrounded system).

• Standards

The following standards shall form a part of this specification - CSA Standard C68.3 for Medium Voltage Power Cable and ICEA S-93-639 (NEMA WC 74) 5-46 kV Shielded Power Cable for Use in the Transmission & Distribution of Electric Energy.

• Conductor

The conductor shall be Class B compressed soft or annealed copper in accordance with ASTM specs B3 and B8 and ICEA Part 2, Section 2.1 and 2.5.



CANADIAN

CSA CT1-13ET

WEIGHTS AND MEASUREMENTS

PRODUCT CODE	SIZE	CONDUCTOR DIAMETER		.220" (5.59mm) INSULATION DIAMETER		EXTRUDED INSULATION SHIELD DIAMETER		MINIMUM POINT JACKET THICKNESS		APPROXIMATE OVERALL DIAMETER		APPROXIMATE NET WEIGHT		ALLOWABLE AMPACITY [‡]	
	AWG or kcmil	inch [*]	mm	inch ^{**}	mm	inch [†]	mm	inch	mm	inch	mm	lbs/1000 ft	kg/km	DUCT	CONDUIT IN AIR
CSA CT1-13ET-010	1/0	0.362	9.190	0.853	21.65	0.908	23.05	0.070	1.78	1.075	27.3	811	1207	215	215
CSA CT1-13ET-020	2/0	0.405	10.29	0.893	22.67	0.948	24.07	0.070	1.78	1.115	28.3	922	1372	245	255
CSA CT1-13ET-030	3/0	0.456	11.58	0.943	23.94	0.998	25.34	0.070	1.78	1.165	29.6	1062	1580	275	290
CSA CT1-13ET-040	4/0	0.512	13.00	0.998	25.34	1.053	26.73	0.070	1.78	1.220	31.0	1234	1836	315	330
CSA CT1-13ET-250	250	0.558	14.17	1.053	26.73	1.108	28.13	0.070	1.78	1.275	32.4	1388	2065	345	365
CSA CT1-13ET-350	350	0.661	16.79	1.158	29.40	1.213	30.80	0.070	1.78	1.380	35.0	1768	2631	415	440
CSA CT1-13ET-500	500	0.790	20.07	1.283	32.58	1.338	33.97	0.070	1.78	1.505	38.2	2312	3440	500	535
CSA CT1-13ET-750	750	0.968	24.59	1.470	37.34	1.525	38.74	0.100	2.54	1.755	44.6	3306	4919	610	655
CSA CT1-13ET-100	1000	1.117	28.37	1.615	41.02	1.678	42.61	0.100	2.54	1.908	48.5	4189	6233	690	755

*Minimum diameter per ASTM Standards. **±0.030" †±0.050" ‡Ampacities are based on the Canadian Electrical Code. Duct ampacities are based per Appendix D, three conductors in one underground duct, 105°C conductor, 20°C earth ambient temperature. Conduit in air ampacities are based per Appendix D, three cables in isolated conduit in air, 105°C conductor, 40°C ambient temperature.

CONSTRUCTION (continued)

• **Conductor Shield**

The conductor shall be shielded with an extruded semi-conducting thermosetting polymeric layer over the conductor, applied in tandem with and firmly bonded to the insulation.

• **Insulation**

The insulation shall be EPR (ethylene propylene rubber) meeting the requirements of the referenced standards. The nominal thickness shall be 0.220".

• **Insulation Shield**

The insulation shall be shielded with an extruded layer of semi-conducting thermosetting material which shall be identified as being semi-conducting. Over this layer shall be applied a helically-wrapped 5-mil copper tape with 25% overlap.

• **Jacket**

The cable shall be provided with a jacket of black sunlight resistant PVC conforming to the requirements specified for polyvinyl chloride jackets in ICEA. The average thickness shall be in accordance with Table 7-3 of ICEA.

• **Identification**

Cable shall be identified by surface printing on the jacket.

• **Tests**

Qualification tests shall be conducted in accordance with the requirements of AEIC.

CSA CT1-19ET



35 kV Type MV-105

Copper Conductor

Thermosetting
Conductor Shield

EPR Insulation

Thermosetting
Insulation Shield

Copper Tape Shield

PVC Jacket

CSA Approved

Sizes 1/0 AWG and
Larger Listed for CT Use

Passes FT-4
Flame Test

APPLICATIONS

Southwire's CSA CT1-19ET Type MV-105 Cable is for use in aerial, direct burial, cable trays, conduit, and underground duct installations as permitted by the Canadian Electrical Code. These cables are capable of operating continuously at a conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 35,000 V, 100% (ungrounded system). Maximum sidewall pressure is 1,000 lbs.

SPECIFICATIONS

Southwire's CSA CT1-19ET Type MV-105 Cable is manufactured and tested in accordance with the latest revisions of the following standards and specifications:

- CSA Spec. C68.3
- ICEA S-93-639 (NEMA WC 74) - 5-46 kV Shielded Power Cable for Use in the Transmission & Distribution of Electric Energy
- ICEA S-97-682 (when requested) 5-46 kV Standard for Utility Shielded Power Cable.
- Passes FT-4 Flame Test

Certified qualification tests were performed in accordance with the requirements of AEIC CS-8. Cable has fully met the qualification testing requirements of AEIC CS-8.

CONSTRUCTION

Southwire's CSA CT1-19ET Type MV-105 Cable offers flexible, easy bending insulation, easy cable preparation, fast stripping thermosetting insulation shield, 105°C continuous operating temperature, 100% shield coverage, and it is triple extruded. Cable is sunlight resistant, suitable for direct burial, and listed for cable tray use in sizes AWG 1/0 and larger.

• Scope

This specification covers single conductor EPR (ethylene propylene rubber) insulated, shielded, PVC jacketed power cable for use in aerial, direct burial, conduit, cable tray (1/0 and larger) and underground duct installations. This cable is capable of operating continuously at a conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 35,000 V, 100% insulation level (ungrounded system).

• Standards

The following standards shall form a part of this specification - CSA C68.3, ICEA Pub. No. S-68-516 (NEMA Pub. WC8) "Ethylene Propylene Rubber Insulated Cable and Wire," and AEIC No. 6, latest issue, ICEA Pub No T-33-655, IEEE 1202.

• Conductor

The conductor shall be Class B compressed soft or annealed copper in accordance with ASTM specs B3 and B8 and ICEA Part 2, Section 2.1 and 2.5.



CANADIAN

CSA CT1-19ET

WEIGHTS AND MEASUREMENTS

PRODUCT CODE	SIZE	CONDUCTOR DIAMETER		.345" (8.763 mm) INSULATION DIAMETER		EXTRUDED INSULATION SHIELD DIAMETER		MINIMUM POINT JACKET THICKNESS		APPROXIMATE OVERALL DIAMETER		APPROXIMATE NET WEIGHT		ALLOWABLE AMPACITY [‡]	
		AWG or kcmil	inch [†]	mm	inch ^{**}	mm	inch [†]	mm	inch	mm	inch	mm	lbs/1000 ft	kg/km	DUCT
CSA CT1-19ET-010	1/0	0.362	9.190	1.098	27.88	1.153	29.27	0.070	1.78	1.320	33.50	1068	1589	215	215
CSA CT1-19ET-040	4/0	0.512	13.00	1.243	31.56	1.298	32.96	0.070	1.78	1.465	37.20	1520	2262	315	330
CSA CT1-19ET-350	350	0.661	16.79	1.403	35.62	1.458	37.02	0.070	1.78	1.625	41.30	2086	3104	415	440
CSA CT1-19ET-500	500	0.790	20.07	1.528	38.80	1.583	40.20	0.100	2.54	1.813	46.00	2600	3869	500	535
CSA CT1-19ET-750	750	0.968	24.59	1.715	43.56	1.778	45.15	0.100	2.54	2.008	51.00	3713	5525	610	655

*Minimum diameter per ASTM Standards. **±0.030" †±0.050" ‡+Ampacities are based on the Canadian Electrical Code. Duct ampacities are based per Appendix D, three conductors in one underground duct, 105°C conductor, 20°C earth ambient temperature. Conduit in air ampacities are based per Appendix D, three cables in isolated conduit in air, 105°C conductor, 40°C ambient temperature.

CONSTRUCTION (continued)

- Conductor Shield**

The conductor shall be shielded with an extruded semi-conducting thermosetting polymeric layer over the conductor, applied in tandem with and firmly bonded to the insulation.
- Insulation**

The insulation shall be EPR (ethylene propylene rubber) meeting the requirements of the referenced standards. The average thickness shall be 0.345" and the minimum spot thickness shall be not less than 90% of the average thickness.
- Insulation Shield**

The insulation shall be shielded with an extruded layer of semi-conducting thermosetting material which shall be identified as being semi-conducting. Over this layer shall be a helically applied, lapped, 0.005" bare copper tape. A suitable binder tape may be applied over the shielding.
- Jacket**

The cable shall be provided with a jacket of black sunlight resistant PVC conforming to the requirements specified for polyvinyl chloride jackets in ICEA. The average thickness shall be in accordance with Table 7-3 of ICEA.
- Identification**

Cable shall be identified by surface printing on the jacket.
- Tests**

Physical and electrical tests shall be conducted in accordance with the requirements of ICEA Pub. No. S-68-516 (NEMA WC8), and AEIC No. 6. Finished cable shall meet the flame test requirements of IEEE 1202.

CSA CT1-21ET



35 kVU Type MV-105

Copper Conductor

Thermosetting
Conductor Shield

EPR Insulation

Thermosetting
Insulation Shield

Copper Tape Shield

PVC Jacket

CSA Approved

Sizes 1/0 AWG and
Larger Listed for CT Use

Passes FT-4
Flame Test

APPLICATIONS

Southwire's CSA CT1-21ET Type MV-105 Cable is for use in aerial, direct burial, cable trays, conduit, and underground duct installations as permitted by the Canadian Electrical Code. These cables are capable of operating continuously at a conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 35,000 V, 133% (ungrounded system). Maximum sidewall pressure is 1,000 lbs.

SPECIFICATIONS

Southwire's CSA CT1-21ET Type MV-105 Cable is manufactured and tested in accordance with the latest revisions of the following standards and specifications:

- CSA Spec. C68.3
- ICEA S-93-639 (NEMA WC 74) - 5-46 kV Shielded Power Cable for Use in the Transmission & Distribution of Electric Energy
- ICEA S-97-682 (when requested) 5-46 kV Standard for Utility Shielded Power Cable.
- Passes FT-4 Flame Test

Certified qualification tests were performed in accordance with the requirements of AEIC CS-8. Cable has fully met the qualification testing requirements of AEIC CS-8.

CONSTRUCTION

Southwire's CSA CT1-21ET Type MV-105 Cable offers flexible, easy bending insulation, easy cable preparation, fast stripping thermosetting insulation shield, 105°C continuous operating temperature, 100% shield coverage, and it is triple extruded. Cable is sunlight resistant, suitable for direct burial, and listed for cable tray use in sizes AWG 1/0 and larger.

• Scope

This specification covers single conductor EPR (ethylene propylene rubber) insulated, shielded, thermoplastic jacketed power cable for use in aerial, direct burial, cable trays, conduit, and underground duct installations. This cable is capable of operating continuously at a conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 35,000 V, 133% insulation level (ungrounded system).

• Standards

The following standards shall form a part of this specification - CSA Standard C68.3 for Medium Voltage Power Cable and ICEA S-93-639 (NEMA WC 74) 5-46 kV Shielded Power Cable for Use in the Transmission and Distribution of Electric Energy.

• Conductor

The conductor shall be Class B compressed soft or annealed copper in accordance with ASTM specs B3 and B8 and ICEA Part 2, Section 2.1 and 2.5.



CANADIAN

CSA CT1-21ET

WEIGHTS AND MEASUREMENTS

PRODUCT CODE	SIZE	CONDUCTOR DIAMETER		0.420" (10.67mm) INSULATION DIAMETER		EXTRUDED INSULATION SHIELD DIAMETER		MINIMUM POINT JACKET THICKNESS		APPROXIMATE OVERALL DIAMETER		APPROXIMATE NET WEIGHT		ALLOWABLE AMPACITY [‡]	
	AWG or kcmil	inch [*]	mm	inch ^{**}	mm	inch [†]	mm	inch	mm	inch	mm	lbs/1000 ft	kg/km	DUCT	CONDUIT IN AIR
CSA CT1-21ET-010	1/0	0.362	9.190	1.243	31.56	1.298	32.96	0.070	1.78	1.514	38.4	1243	1850	215	215
CSA CT1-21ET-040	4/0	0.512	13.00	1.388	35.24	1.443	36.64	0.070	1.78	1.610	40.9	1712	2547	315	330
CSA CT1-21ET-350	350	0.661	16.79	1.548	39.31	1.603	40.70	0.100	2.54	1.833	46.5	2399	3570	415	440
CSA CT1-21ET-500	500	0.790	20.07	1.673	42.48	1.735	44.07	0.100	2.54	1.965	49.9	3003	4468	500	535
CSA CT1-21ET-750	750	0.968	24.59	1.860	47.24	1.923	48.83	0.100	2.54	2.153	54.7	3970	5907	610	655

*Minimum diameter per ASTM Standards. **±0.030" †±0.050" ‡Ampacities are based on the Canadian Electrical Code. Duct ampacities are based per Appendix D, three conductors in one underground duct, 105°C conductor, 20°C earth ambient temperature. Conduit in air ampacities are based per Appendix D, three cables in isolated conduit in air, 105°C conductor, 40°C ambient temperature.

CONSTRUCTION (continued)

• **Conductor Shield**

The conductor shall be shielded with an extruded semi-conducting thermosetting polymeric layer over the conductor, applied in tandem with and firmly bonded to the insulation.

• **Insulation**

The insulation shall be EPR (ethylene propylene rubber) meeting the requirements of the referenced standards. The nominal thickness shall be 0.420".

• **Insulation Shield**

The insulation shall be shielded with an extruded layer of semi-conducting thermosetting material which shall be identified as being semi-conducting. Over this layer shall be applied a helically-wrapped 5-mil copper tape with 25% overlap.

• **Jacket**

The cable shall be provided with a jacket of black sunlight resistant PVC conforming to the requirements specified for polyvinyl chloride jackets in ICEA. The average thickness shall be in accordance with Table 7-3 of ICEA.

• **Identification**

Cable shall be identified by surface printing on the jacket.

• **Tests**

Qualification tests shall be conducted in accordance with the requirements of AEIC.

CSA TECK 90

5 kV NON-SHIELDED XLPE



5 kV Type MV-90
or MC

Copper Conductor

Thermosetting
Conductor Shield

XLPE Insulation

Non-Shielded

CSA Approved

Copper Ground Wire

Inner PVC Jacket

Aluminum Armor

Overall PVC Jacket

Passes FT-4
Flame Test

APPLICATIONS

Southwire's CSA AL09XNS Type MV-90 or MC Cable is for use in aerial installations, direct buried, concrete-encased installations, cable trays, troughs or continuous rigid cable supports. These cables are capable of operating continuously at a maximum conductor temperature of 90°C for normal operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

SPECIFICATIONS

Southwire's CSA AL09XNS Type MV-90 or MC Cable is manufactured and tested in accordance with the latest revisions of:

- CSA C22.2 No. 131
- CSA C68.3
- CSA C22.2 No. 174-HL Listing
- Ontario Hydro Provisional Spec L891 SM-77
- ICEA S-96-659 (NEMA WC 71) - Nonshielded Cables Rated 2001-5000 Volts for Use in the Distribution of Electric Energy
- IEEE 1202 - Flame Test (70,000 BTU/hr Vertical Tray Test)
- ICEA T-29-520 - Vertical Cable Tray Flame Tests (210,000 BTU/hr)
- Passes FT-4 Flame Test

CONSTRUCTION

Southwire's CSA AL09XNS Type MV-90 or MC Cable is a flame-resistant product that offers heavy duty construction and flexible XLPE insulation.

• Scope

This specification covers three conductor XLPE (cross-linked polyethylene) insulated, non-shielded, Teck 90 interlock armored, thermoplastic jacketed power cables with grounding conductor for use in aerial installations, direct burial, concrete-encased installations, cable trays, troughs, or continuous rigid cable supports. These cables are capable of operating continuously at a temperature of 90°C for normal operations, 130°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated 2,400 volts in wet or dry locations.

• Standards

The following standards will form part of this specification: CSA C22.2 CSA C68.3 ICEA S-96-659 (NEMA WC 71) Nonshielded Cables Rated 2001-5000 Volts for Use in the Distribution of Electric Energy.

• Conductor

The conductor will be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8 and ICEA.

• Conductor Shield

The conductor will be shielded with an extruded semi-conducting thermosetting polymeric layer, which will be firmly bonded to the insulation. The thickness will be in accordance with the referenced standards.



CANADIAN

CSA TECK 90 5 kV NON-SHIELDED XLPE

WEIGHTS AND MEASUREMENTS

PRODUCT CODE	SIZE	CONDUCTOR DIAMETER*		0.090" (2.286mm) INSULATION DIAMETER		GRD. WIRE SIZE	INNER JACKET THICKNESS		ARMOR DIAMETER		OUTER JACKET THICKNESS		APPROX. OVERALL DIAMETER		APPROX. NET WEIGHT		AMPACITIES**
		AWG or kcmil	inch	mm	inch		mm	inch	mm	inch	mm	inch	mm	inch	mm	lbs/1000 ft	
CSA AL09XNS-002	2	0.283	7.190	0.487	12.37	6	0.080	2.03	1.545	39.25	0.065	1.65	1.675	42.56	1432	2131	120
CSA AL09XNS-001	1	0.322	8.180	0.532	13.52	6	0.080	2.03	1.641	41.69	0.065	1.65	1.771	45.00	1668	2482	140
CSA AL09XNS-018	1/0	0.362	9.190	0.572	14.53	6	0.080	2.03	1.728	43.90	0.065	1.65	1.858	47.21	1930	2872	155
CSA AL09XNS-020	2/0	0.405	10.29	0.614	15.60	6	0.080	2.03	1.818	46.19	0.065	1.65	1.948	49.49	2244	3339	185
CSA AL09XNS-040	4/0	0.512	13.00	0.720	18.29	4	0.110	2.79	2.117	53.79	0.075	1.91	2.243	56.99	3362	5003	235
CSA AL09XNS-250	250	0.558	14.17	0.778	19.77	4	0.110	2.79	2.243	56.99	0.075	1.91	2.369	60.19	3817	5680	265
CSA AL09XNS-350	350	0.661	16.79	0.881	22.38	3	0.110	2.79	2.465	62.63	0.075	1.91	2.615	66.44	5013	7459	325
CSA AL09XNS-500	500	0.790	20.07	1.010	25.66	3	0.110	2.79	2.744	69.72	0.075	1.91	2.894	73.53	6633	9870	395
CSA AL09XNS-750	750	0.968	24.59	1.196	30.39	3	0.140	3.56	3.205	81.43	0.090	2.29	3.405	86.51	9542	14198	500

*Minimum diameter per ASTM Standards. Dimensions accuracy ±0.050" **Ampacities are based on the NEC® 2008 Edition. Direct burial ampacities are based on Table 310-83 three conductors within an overall covering directly buried, 90°C conductor, 20°C earth ambient temperature. In air ampacities are based on Table 310-71 three conductors within an overall covering in free air, 90°C conductor, 40°C ambient temperature.

CONSTRUCTION (continued)

- Insulation**
 The insulation will be XLPE (cross-linked polyethylene) meeting the requirements of the referenced standards. The average thickness will be 0.090" and the minimum spot thickness will be not less than 90% of the average thickness.
- Grounding Conductor**
 The ground conductor will be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8.
- Assembly**
 The insulated power conductors will be cabled round with fillers and with a grounding conductor in one outer interstice and covered with a binder tape.
- Inner Jacket**
 Flame retardant, moisture and sunlight resistant black PVC.
- Armor**
 A single strip of interlocked armor of aluminum will be applied over the assembly.
- Jacket**
 The cable will be covered with a -40°C yellow PVC jacket conforming to the requirements specified for polyvinyl chloride in ICEA. The average thickness will be in accordance with the referenced standards and the minimum spot thickness will be not less than 80% of the average thickness. The jacket will be sunlight resistant and will meet the requirements of IEEE 1202 (70,000 BTU/hr) and ICEA T-29-520 (210,000 BTU/hr) vertical cable tray flame tests. Jacket meets Ontario Hydro Provisional Spec L891 SM-77. Cable passes FT-4 flame tests.
- Identification**
 Manufacturer's identification will be printed on the jacket.
- Tests**
 Physical and electrical tests will be conducted in accordance with the requirements of the referenced standards.

CSA TECK 90

5 kV NON-SHIELDED EPR



5 kV Type MV-105
or MC

Copper Conductor

Thermosetting
Conductor Shield

EPR Insulation

Non-Shielded

CSA Approved

Copper Ground Wire

Inner PVC Jacket

Aluminum Armor

Overall PVC Jacket

Passes FT-4
Flame Test

APPLICATIONS

Southwire's CSA AL09ENS Type MV-105 or MC Cable is for use in aerial installations, direct buried, concrete-encased installations, cable trays, troughs or continuous rigid cable supports. These cables are capable of operating continuously at a maximum conductor temperature of 105°C for normal operation, 140°C for emergency overload conditions, and 250°C for short circuit conditions.

SPECIFICATIONS

Southwire's CSA AL09ENS Type MV-105 or MC Cable is manufactured and tested in accordance with the latest revisions of:

- CSA C22.2 No. 131
- CSA C68.3
- CSA C22.2 No. 174-HL
- Ontario Hydro Provisional Spec L891 SM-77
- ICEA S-96-659 (NEMA WC 71) - Nonshielded Cables Rated 2001-5000 Volts for Use in the Distribution of Electric Energy
- IEEE 1202 - Flame Test (70,000 BTU/hr Vertical Tray Test)
- ICEA T-29-520 - Vertical Cable Tray Flame Tests (210,000 BTU/hr)
- Passes FT-4 Flame Test

CONSTRUCTION

Southwire's CSA AL09ENS Type MV-105 or MC Cable is a flame-resistant product that offers heavy duty construction and flexible EPR insulation.

- **Scope**

This specification covers three conductor EPR (ethylene propylene rubber) insulated, non-shielded, interlock armored, Teck 90 thermoplastic jacketed power cables with grounding conductor for use in aerial installations, direct burial, concrete-encased installations, cable trays, troughs, or continuous rigid cable supports. These cables are capable of operating continuously at a temperature of 105°C for normal operations, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated 2,400 volts in wet or dry locations.

- **Standards**

The following standards will form part of this specification: ICEA S-96-659 (NEMA WC 71) Nonshielded Cables Rated 2001-5000 Volts for Use in the Distribution of Electric Energy. CSA C22.2 CSA C68.3

- **Conductor**

The conductor will be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8 and ICEA.

- **Conductor Shield**

The conductor will be shielded with an extruded semi-conducting thermosetting polymeric layer, which will be firmly bonded to the insulation. The thickness will be in accordance with the referenced standards.



CANADIAN

WEIGHTS AND MEASUREMENTS

PRODUCT CODE	SIZE	CONDUCTOR DIAMETER		0.090" (2.286mm) INSULATION DIAMETER		GRD. WIRE SIZE	INNER JACKET THICKNESS		ARMOR DIAMETER		OUTER JACKET THICKNESS		APPROX. OVERALL DIAMETER		APPROX. NET WEIGHT		AMPACITIES**
		AWG or kcmil	inch	mm	inch		mm	AWG	inch	mm	inch	mm	inch	mm	inch	mm	lbs/1000 ft
CSA AL09ENS-002	2	0.283	7.190	0.487	12.37	6	0.080	2.03	1.545	39.25	0.065	1.65	1.675	42.56	1497	2228	120
CSA AL09ENS-001	1	0.322	8.180	0.532	13.52	6	0.080	2.03	1.641	41.69	0.065	1.65	1.771	45.00	1739	2588	140
CSA AL09ENS-018	1/0	0.362	9.190	0.572	14.53	6	0.080	2.03	1.728	43.90	0.065	1.65	1.858	47.21	2008	2988	155
CSA AL09ENS-020	2/0	0.405	10.29	0.614	15.60	6	0.080	2.03	1.818	46.19	0.065	1.65	1.948	49.49	2329	3466	185
CSA AL09ENS-040	4/0	0.512	13.00	0.720	18.29	4	0.110	2.79	2.117	53.79	0.075	1.91	2.243	56.99	3465	5156	235
CSA AL09ENS-250	250	0.558	14.17	0.778	19.77	4	0.110	2.79	2.243	56.99	0.075	1.91	2.369	60.19	3930	5848	265
CSA AL09ENS-350	350	0.661	16.79	0.881	22.38	3	0.110	2.79	2.465	62.63	0.075	1.91	2.615	66.44	5145	7656	325
CSA AL09ENS-500	500	0.790	20.07	1.010	25.66	3	0.110	2.79	2.744	69.72	0.075	1.91	2.894	73.53	6785	10096	395
CSA AL09ENS-750	750	0.968	24.59	1.196	30.39	3	0.140	3.56	3.205	81.43	0.090	2.29	3.405	86.51	9731	14480	500

*Dimensions accuracy ±0.050" **Ampacities are based upon cables in free air run, per CEC Part 1, Table 1 & 2. For other installations, please refer to the appropriate sections of the CEC.

CONSTRUCTION (continued)

- Insulation**
 The insulation will be EPR (ethylene propylene rubber) meeting the requirements of the referenced standards. The average thickness will be 0.090" and the minimum spot thickness will be not less than 90% of the average thickness.
- Grounding Conductor**
 The ground conductor will be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8.
- Assembly**
 The insulated power conductors will be cabled round with fillers and with a grounding conductor in one outer interstice and covered with a binder tape.
- Inner Jacket**
 Flame retardant, moisture and sunlight resistant -40°C black PVC jacket.
- Armor**
 A single strip of interlocked armor of aluminum will be applied over the assembly.
- Jacket**
 The cable will be covered with a -40°C yellow PVC jacket conforming to the requirements specified for polyvinyl chloride in ICEA. The average thickness will be in accordance with the referenced standards and the minimum spot thickness will be not less than 80% of the average thickness. The jacket will be sunlight resistant and will meet the requirements of IEEE 1202 (70,000 BTU/hr) and ICEA T-29-520 (210,000 BTU/hr) vertical cable tray flame tests. Jacket meets Ontario Hydro Provisional Spec L891 SM-77. Cable passes FT-4 flame tests.
- Identification**
 Manufacturer's identification will be printed on the jacket.
- Tests**
 Physical and electrical tests will be conducted in accordance with the requirements of the referenced standards.

CSA TECK 90 5 kV NON-SHIELDED EPR

CSA TECK HV

5 kV SHIELDED EPR



5 kVU or 8 kV Type
MV-105 or MC

3 Copper Conductors

Thermosetting
Conductor Shield

EPR Insulation

Thermosetting
Insulation Shield

CSA Approved

Tape Shield

Copper Ground Wire

Inner PVC Jacket

Aluminum Armor

Overall PVC Jacket

Passes FT-4
Flame Test



APPLICATIONS

Southwire's CSA AL09ET Type MV-105 or MC Cable is for use in aerial installations, direct burial, concrete-encased installations, cable trays, troughs or continuous rigid cable supports. These cables are capable of operating continuously at a maximum conductor temperature of 105°C for normal operation, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 5,000 V, 133% (ungrounded system) insulation level, and 8,000 V, 100% insulation level (grounded system).

SPECIFICATIONS

Southwire's CSA AL09ET Type MV-105 or MC Cable is manufactured and tested in accordance with the latest revisions of the following standards and specifications:

- CSA C68.3
- CSA C22.2 No. 174-HL
- CSA C22.2 No. 131-FT-4 -40°C Sunlight Resistant
- Ontario Hydro Provisional Spec L891 SM-77
- ICEA S-93-639 (NEMA WC 74) - 5-46 kV Shielded Power Cable for Use in the Transmission & Distribution of Electric Energy
- IEEE 1202 - Flame Test (70,000 BTU/hr Vertical Tray Test)
- ICEA T-29-520 - Vertical Cable Tray Flame Test (210,000 BTU/hr)
- Passes FT-4 Flame Test

Certified qualification tests were performed in accordance with the requirements of AEIC CS-8. Cable has fully met the qualification testing requirements of AEIC CS-8.

CONSTRUCTION

Southwire's CSA AL09ET Type MV-105 or MC Cable offers heavy duty construction and flexible EPR insulation. Alternate constructions available.

- **Scope**
This specification covers three conductor EPR (ethylene propylene rubber) insulated, shielded, Teck HV interlock armored, thermoplastic jacketed power cables with grounding conductor for use in aerial installations, direct burial, concrete-encased installations, cable trays, troughs, or continuous rigid cable supports. These cables are capable of operating continuously at a temperature of 105°C for normal operations, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 5,000 V, 133% insulation level, and 8,000 V, 100% insulation level.
- **Standards**
The following standards shall form part of this specification: ICEA S-93-639 (NEMA WC 74) 5-46 kV Shielded Power Cable for Use in the Transmission and Distribution of Electric Energy. CSA C22.2 CSA C68.3.
- **Conductor**
The conductor shall be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8 and ICEA.
- **Conductor Shield**
The conductor shall be shielded with an extruded semi-conducting thermosetting polymeric layer, which shall be firmly bonded to the insulation. The thickness shall be in accordance with the referenced standards.



CANADIAN

CSA TECK HV 5 kV SHIELDED EPR

WEIGHTS AND MEASUREMENTS

PRODUCT CODE	SIZE	CONDUCTOR DIAMETER*		INSULATION DIAMETER 0.115" (2.92mm)		INSULATION SHIELD DIAMETER		GRD. WIRE SIZE	INNER JACKET THICKNESS		ARMORED DIAMETER		OVERALL JACKET THICKNESS		APPROX. OVERALL DIAMETER		APPROX. NET WEIGHT		AMPACITIES**
		AWG or kcmil	inch	mm	inch	mm	inch		mm	inch	mm	inch	mm	inch	mm	inch	mm	lbs/1000 ft	
CSA AL09ET-002	2	0.283	7.190	0.568	14.43	0.623	15.83	6	0.110	2.79	1.800	45.73	0.065	1.65	1.935	49.16	1983	2951	140
CSA AL09ET-001	1	0.322	8.180	0.608	15.45	0.663	16.84	6	0.110	2.79	1.870	47.51	0.065	1.65	2.002	50.86	2234	3324	160
CSA AL09ET-018	1/0	0.362	9.190	0.648	16.46	0.703	17.86	6	0.110	2.79	1.960	49.80	0.065	1.65	2.094	53.20	2517	3745	185
CSA AL09ET-020	2/0	0.405	10.29	0.688	17.48	0.743	18.88	6	0.110	2.79	2.110	53.61	0.065	1.65	2.248	57.11	2979	4433	215
CSA AL09ET-020	3/0	0.405	10.29	0.738	18.75	0.793	20.15	4	0.110	2.79	2.230	56.66	0.065	1.65	2.364	60.06	3462	5151	250
CSA AL09ET-040	4/0	0.512	13.00	0.793	20.15	0.848	21.55	4	0.110	2.79	2.340	59.45	0.075	1.91	2.494	63.37	4056	6035	285
CSA AL09ET-250	250	0.558	14.17	0.850	21.60	0.905	22.99	4	0.110	2.79	2.440	61.99	0.075	1.91	2.595	65.93	4616	6869	320
CSA AL09ET-350	350	0.661	16.79	0.953	24.21	1.008	25.61	3	0.140	3.56	2.740	69.62	0.075	1.91	2.894	73.53	5818	8657	395
CSA AL09ET-500	500	0.790	20.07	1.078	27.39	1.133	28.79	3	0.140	3.56	2.950	74.95	0.075	1.91	3.105	78.89	7612	11327	485
CSA AL09ET-750	750	0.968	24.59	1.265	32.14	1.320	33.54	2	0.140	3.56	3.440	87.40	0.090	2.29	3.626	92.13	10807	16081	615

*Dimensions accuracy ±0.050" **Ampacities are based upon cables in free air run, per CEC Part 1, Table 1 & 2. For other installations, please refer to the appropriate sections of the CEC.

CONSTRUCTION (continued)

- Insulation**
 The insulation shall be EPR (ethylene propylene rubber) meeting the requirements of the referenced standards. The nominal thickness shall be 0.115".
- Insulation Shield**
 The insulation shall be shielded with an extruded semi-conducting thermosetting polymeric layer which shall be identified as semi-conducting. Over this layer shall be applied a helically-wrapped 5-mil copper tape with 25% overlap. The method of phase identification will be similar to ICEA Method 3, using printed circuit numbers and colors (1-BLACK, 2-RED, 3-BLUE).
- Grounding Conductor**
 The ground conductor shall be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8.
- Assembly**
 The insulated and shielded power conductors shall be cabled round with fillers and with a grounding conductor in one outer interstice and covered with a binder tape.
- Inner Jacket**
 Flame retardant, moisture and sunlight resistant -40°C black PVC jacket.
- Armor**
 A single strip of interlocked armor of aluminum shall be applied over the assembly.
- Jacket**
 The cable shall be covered with a -40°C yellow PVC jacket conforming to the requirements specified for polyvinyl chloride in ICEA. The average thickness shall be in accordance with the referenced standards. The jacket will be sunlight resistant and will meet the requirements of UL 1685 - UL Flame Exposure Test. Jacket meets Ontario Hydro Provisional Spec L891 SM-77.
- Identification**
 Manufacturer's identification shall be printed on the jacket.
- Tests**
 Qualification tests shall be conducted in accordance with the requirements of AEIC.

CSA TECK HV

15 kV SHIELDED EPR



15 kVU or 8 kV Type
MV-105 or MC

3 Copper Conductors

Thermosetting
Conductor Shield

EPR Insulation

Thermosetting
Insulation Shield

CSA Approved

Tape Shield

Copper Ground Wire

Inner PVC Jacket

Aluminum Armor

Overall PVC Jacket

Passes FT-4
Flame Test

APPLICATIONS

Southwire's CSA AL13ET Type MV-105 or MC Cable is for use in aerial installations, direct burial, concrete-encased installations, cable trays, troughs or continuous rigid cable supports. These cables are capable of operating continuously at a maximum conductor temperature of 105°C for normal operation, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 15,000 V, 133% insulation level (ungrounded system).

SPECIFICATIONS

Southwire's CSA AL13ET Type MV-105 or MC Cable is manufactured and tested in accordance with the latest revisions of the following standards and specifications:

- CSA C68.3
- CSA C22.2 No. 174-HL
- Ontario Hydro Provisional Spec L891 SM-77 Sunlight Resistant
- ICEA S-93-639 (NEMA WC 74) - 5-46 kV Shielded Power Cable for Use in the Transmission & Distribution of Electric Energy
- IEEE 1202 - Flame Test (70,000 BTU/hr Vertical Tray Test)
- ICEA T-29-520 - Vertical Cable Tray Flame Test (210,000 BTU/hr)
- Passes FT-4 Flame Test

Certified qualification tests were performed in accordance with the requirements of AEIC CS-8. Cable has fully met the qualification testing requirements of AEIC CS-8.

CONSTRUCTION

Southwire's CSA AL13ET Type MV-105 or MC Cable offers heavy duty construction and flexible EPR insulation. Alternate constructions available.

- **Scope**
This specification covers three conductor EPR (ethylene propylene rubber) insulated, shielded, interlock armored, Teck HV thermoplastic jacketed power cables with grounding conductor for use in aerial installations, direct burial, concrete-encased installations, cable trays, troughs, or continuous rigid cable supports. These cables are capable of operating continuously at a temperature of 105°C for normal operations, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 15,000 V, 133% insulation level (ungrounded system).
- **Standards**
The following standards shall form part of this specification: ICEA S-93-639 (NEMA WC 74) 5-46 kV Shielded Power Cable for Use in the Transmission and Distribution of Electric Energy. CSA C22.2 CSA C68.3.
- **Conductor**
The conductor shall be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8.
- **Conductor Shield**
The conductor shall be shielded with an extruded semi-conducting thermosetting polymeric layer, which shall be firmly bonded to the insulation. The thickness shall be in accordance with the referenced standards.



CANADIAN

CSA TECK HV 15 kV SHIELDED EPR

WEIGHTS AND MEASUREMENTS

PRODUCT CODE	SIZE	CONDUCTOR DIAMETER*		0.220" (5.59mm) INSULATION DIAMETER		INSULATION SHIELD DIAMETER		GRD. WIRE SIZE	INNER JACKET		ARMORED DIAMETER		OVERALL JACKET THICKNESS		APPROX. OVERALL DIAMETER		APPROX. NET WEIGHT		ALLOWABLE AMPACITIES**
		AWG or kcmil	inch	mm	inch	mm	inch		mm	AWG	inch	mm	inch	mm	inch	mm	inch	mm	
CSA AL13ET-002	2	0.283	7.190	0.738	18.75	0.798	20.27	6	0.110	2.79	2.328	59.15	0.075	1.91	2.482	63.06	2680	3988	185
CSA AL13ET-001	1	0.322	8.180	0.778	19.77	0.838	21.29	4	0.110	2.79	2.414	61.33	0.075	1.91	2.568	65.25	2989	4448	210
CSA AL13ET-018	1/0	0.362	9.190	0.818	20.78	0.878	22.31	4	0.110	2.79	2.501	63.54	0.075	1.91	2.655	67.46	3300	4910	240
CSA AL13ET-020	2/0	0.405	10.29	0.858	21.80	0.918	23.32	4	0.110	2.79	2.587	65.73	0.075	1.91	2.741	69.64	3659	5445	275
CSA AL13ET-020	3/0	0.405	10.29	0.908	23.07	0.968	24.59	3	0.110	2.79	2.695	68.47	0.075	1.91	2.849	72.38	4150	6175	315
CSA AL13ET-040	4/0	0.512	13.00	0.963	24.47	1.023	25.99	3	0.110	2.79	2.814	71.50	0.075	1.91	2.968	75.41	4704	7000	360
CSA AL13ET-250	250	0.558	14.17	1.008	25.61	1.088	27.64	2	0.110	2.79	2.954	75.05	0.075	1.91	3.108	78.96	5288	7869	400
CSA AL13ET-350	350	0.661	16.79	1.110	28.20	1.190	30.23	2	0.140	3.56	3.236	82.22	0.090	2.29	3.416	86.79	6715	9992	490
CSA AL13ET-500	500	0.790	20.07	1.235	31.38	1.315	33.41	1	0.140	3.56	3.506	89.08	0.090	2.29	3.686	93.65	8516	12672	600
CSA AL13ET-750	750	0.968	24.59	1.423	36.15	1.503	38.19	1/0	0.140	3.56	3.911	99.37	0.090	2.29	4.091	103.94	11445	17030	745

*Dimensions accuracy ±0.050" **Ampacities are based upon cables in free air run, per CEC Part 1, Table 1 & 2. For other installations, please refer to the appropriate sections of the CEC.

CONSTRUCTION (continued)

- Insulation**
 The insulation shall be EPR (ethylene propylene rubber) meeting the requirements of the referenced standards. The nominal thickness shall be 0.220".
- Insulation Shield**
 The insulation shall be shielded with an extruded semi-conducting thermosetting polymeric layer which shall be identified as semi-conducting. Over this layer shall be applied a helically-wrapped 5-mil copper tape with 25% overlap. The method of phase identification will be similar to ICEA Method 3, using printed circuit numbers and colors (1-BLACK, 2-RED, 3-BLUE).
- Grounding Conductor**
 The ground conductor shall be Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8.
- Assembly**
 The insulated and shielded power conductors shall be cabled round with non-wicking, non-hydroscopic fillers and with a grounding conductor in one outer interstice and covered with a binder tape.
- Inner Jacket**
 Flame retardant, moisture and sunlight resistant -40°C black PVC jacket.
- Armor**
 A single strip of interlocked armor of aluminum shall be applied over the assembly.
- Jacket**
 The cable shall be covered with a -40°C red PVC jacket conforming to the requirements specified for polyvinyl chloride in ICEA. The average thickness shall be in accordance with the referenced standards. The jacket will be sunlight resistant and will meet the requirements of CSA FT-4 Flame Test. Jacket meets Ontario Hydro Provisional Spec L891 SM-77. Optional SOLONON® low-smoke, non-halogen polyolefin jackets and CPE jackets are available upon request.
- Identification**
 Manufacturer's identification shall be printed on the jacket.
- Tests**
 Qualification tests shall be conducted in accordance with the requirements of AEIC.

RW90



APPLICATIONS

For open wiring and use in raceways (except cable troughs and ventilated flexible cableways) in dry or wet locations. For open wiring exposed to the weather. Minimum recommended installation temperature -40°C (with suitable handling procedures). Maximum conductor temperature 90°C. Approved for use on ceiling fixtures.

SPECIFICATIONS

- Single copper conductor
- CSA Spec. C22.2, No. 38
- File Listing: LL90458

CONSTRUCTION

Single copper conductor with low temperature, moisture resisting XLPE (cross-linked polyethylene) insulation. Standard black sizes 6 and larger are sunlight resistant and are marked "Sun Res"; colored insulation is not.

600 Volts

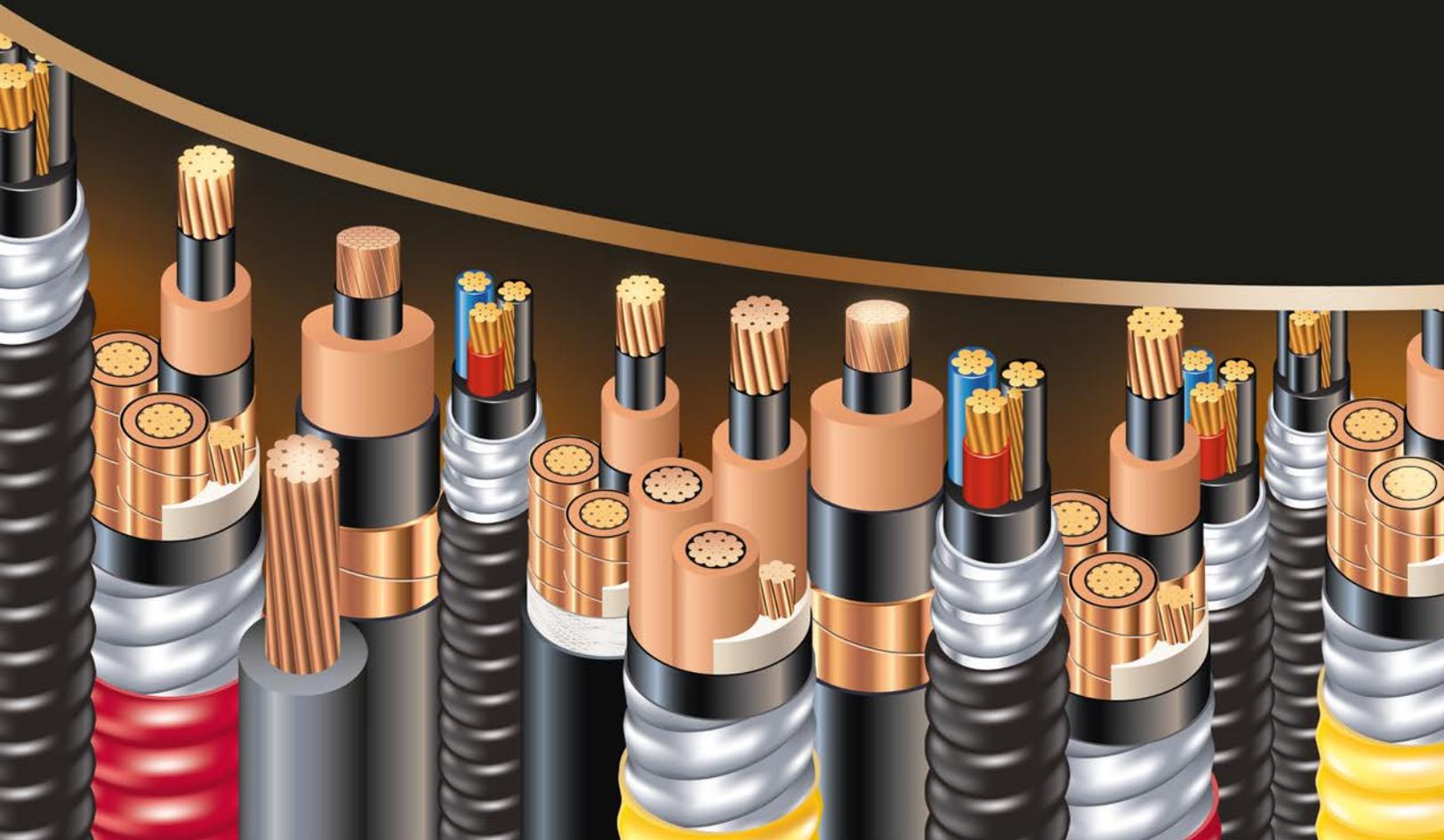
90°C Max, -40°C Min

Sizes 6 and Larger Black
Sunlight Resistant

WEIGHTS AND MEASUREMENTS

SIZE (AWG)	STRAND	INSULATION THICKNESS		NOMINAL O.D.		AMPACITY		NET WEIGHT	
		mm	inch	mm	inch	OPEN	CONDUIT	kg/km	lbs/1000 ft
14	1	0.76	0.030	3.250	0.128	20	15	25	17
12	1	0.76	0.030	3.630	0.143	25	20	36	24
10	1	0.76	0.030	4.190	0.165	40	30	55	37
14	7	0.76	0.030	3.580	0.130	20	15	26	18
12	7	0.76	0.030	4.040	0.147	25	20	38	26
10	7	0.76	0.030	4.650	0.171	40	30	58	40
8	7	1.14	0.045	5.970	0.235	70	40	94	63
6	7	1.14	0.045	6.880	0.271	100	55	143	96
4	7	1.14	0.045	8.080	0.318	135	70	219	147
3	7	1.14	0.045	8.760	0.345	155	80	272	183
2	7	1.14	0.045	9.550	0.376	180	100	339	228
1	19	1.40	0.055	11.05	0.435	210	110	429	288
1/0	19	1.40	0.055	12.07	0.475	245	125	534	359
2/0	19	1.40	0.055	13.16	0.518	285	145	665	447
3/0	19	1.40	0.055	14.40	0.567	330	165	830	558
4/0	19	1.40	0.055	15.82	0.623	385	195	1039	698
250	37	1.65	0.065	17.55	0.691	425	215	1231	827
300	37	1.65	0.065	18.90	0.744	480	240	1467	986
350	37	1.65	0.065	20.17	0.794	530	260	1704	1145
400	37	1.65	0.065	21.31	0.839	575	280	1939	1303
500	37	1.65	0.065	23.44	0.923	660	320	2412	1621
600	61	2.03	0.080	26.14	1.029	740	355	2901	1950
750	61	2.03	0.080	28.73	1.131	845	400	3607	2424
1000	61	2.03	0.080	35.51	1.280	1000	455	4778	3211

*Data shown for all sizes rated 600 volts. **Allowable ampacities for not more than 3 copper conductors in raceway or cable (based on ambient temperature of 30°C).



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Industrial Cable

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