
NVDAN
COMPANY Co.,Ltd.

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CATALOGUE

cUL & CSA
Listed Cables

NVDAN
COMPANY Co.,Ltd.

ISO ISO9001 ISO ISO14001 ISO ISO45001 ISO ISO18001 ISO ISO27001

Uniform Social Credit Code: 91210124MA10EAKC82



Shenyang Nande Wire & Cable Manufacturing Co., Ltd. (hereinafter referred to as "Nande Cable") is a modern wire and cable manufacturer integrating R&D, production, sales and global service. Established in 2020, the company is located in Shenyang, Liaoning Province, China, covering more than 47,000 square meters with a registered capital of RMB 131.4 million.

Since its establishment, Nande Cable has been committed to technological innovation and quality-driven development, continuously upgrading its manufacturing capabilities and international service standards. Equipped with advanced production lines and comprehensive testing facilities, the company implements strict quality control throughout every stage of production, from raw material selection to final delivery.

Nande Cable has established a complete quality management system and has obtained ISO 9001, ISO 14001, Occupational Health and Safety Management System Certification, China Compulsory Certification (CCC), National Industrial Product Production License and Mining Safety Approval (MA). All products are manufactured in strict accordance with GB, IEC and customer-specific technical standards.

The company provides a comprehensive portfolio of products, including low and medium voltage power cables, building wires, industrial cables, mining cables, control and instrumentation cables, rubber flexible cables, fire-resistant cables, mineral insulated cables, high-temperature cables, communication cables and photovoltaic solar cables.

Nande Cable products have been widely supplied to major power utilities, EPC contractors and industrial enterprises. The company has established long-term cooperative relationships with leading organizations and internationally recognized brands, including State Grid, China Huaneng, China Datang, SPIC, China Huadian, POWERCHINA, ENERGY CHINA, Sinohydro, CGN, China Coal Group, CR Power, China Yangtze Power, Haier, Shengu Group, BMW Brilliance, as well as global industrial leaders such as Schneider Electric, Siemens and Toshiba, demonstrating the company's reliable product quality and engineering service capabilities.

Currently, Nande Cable is expanding its presence in international markets, with a strong focus on North America, Latin America, Africa and Southeast Asia. Products including NMD90, NMWU, RW90, RWU90, RPV90, RPVU90, T90 Nylon, AC90, ACWU90, TECK90, USEI90, MV90, MV105, SHD-GC, G-GC, Type W, SJOOW, SOOW and Solar PV Wire are widely used in power utilities, renewable energy, mining, oil & gas, EPC projects and industrial infrastructure.

Leveraging strong manufacturing capability, a stable supply chain and flexible production capacity in China, Nande Cable provides customers with high-quality products, competitive pricing and customized cable solutions. The company continues to strengthen its global distribution network and build long-term partnerships with distributors, contractors and engineering companies worldwide.

Today, Nande Cable products are widely applied in electric power, renewable energy, mining, oil & gas, rail transportation, metallurgy, construction and industrial manufacturing. Guided by the philosophy of "Advanced Technology, Reliable Quality", Nande Cable is dedicated to becoming a trusted global cable manufacturer and a long-term strategic partner for customers around the world.

ISO ISO9001 ISO ISO14001 ISO ISO45001 ISO ISO18001 ISO ISO27001

Uniform Social Credit Code: 91210124MA10EAKC82

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SHENYANG NANDE WIRE & CABLE MANUFACTURING CO., LTD.

One of the largest Manufacturer & Exporter of UL cUL CSA listed cables in China

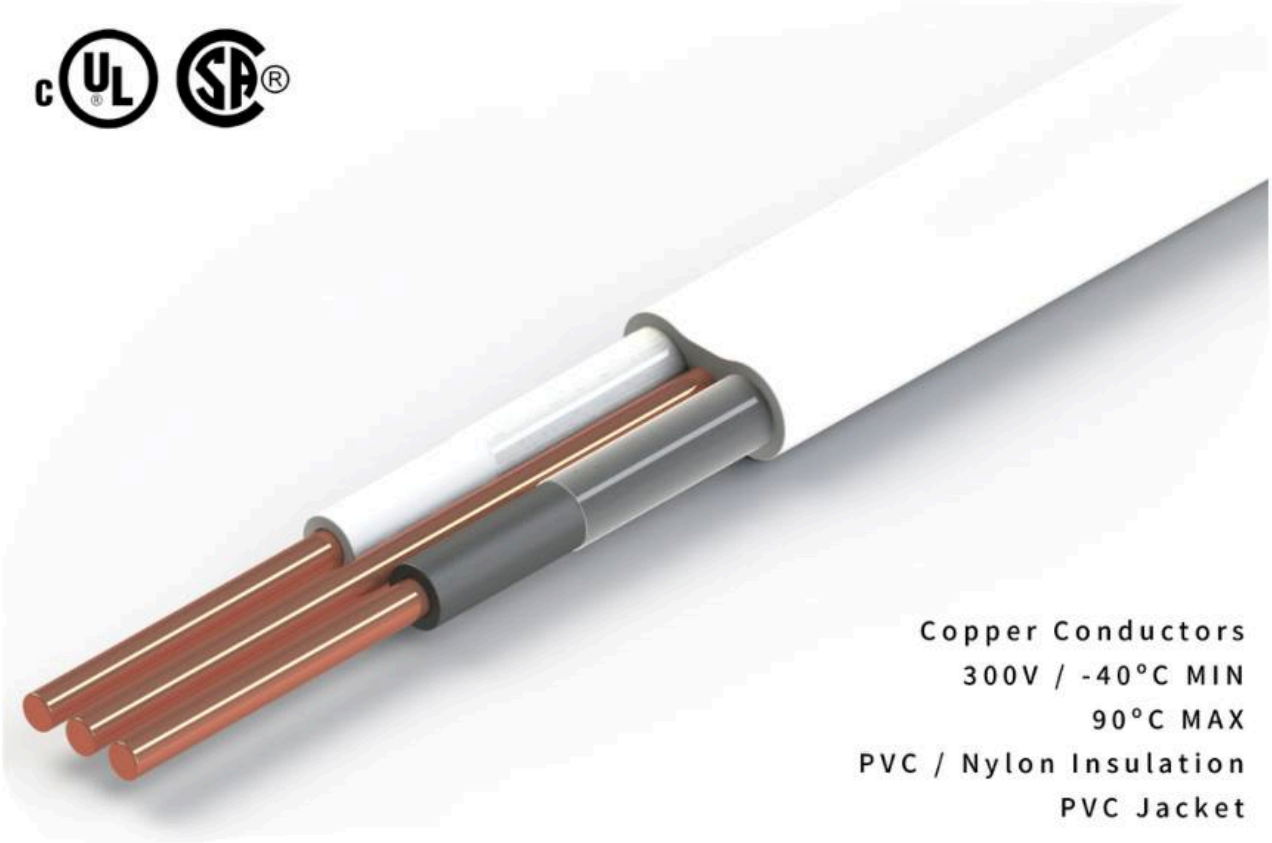
The company have been formed an entire set of Restriction and Requirement of Operational SOP, QC documentation and Guidance as per IsO 9001. ISO14001 andISO45001 to step all methods for assessing product quality and, if necessary.improving it. An-various-way of perform quality control covering benchmark, exam-ination manufacturing procedures, and tests on products can guarantee of mini-mizing the significant product differences of delivery and supply. Insisting on"Quality as life and Responsibility as heaven" will lead a better OTD timely servicesfor global customers all over the world.

ND NVDAN
COMPANY Co.,Ltd.

NMD90 Copper

Non-metallic Sheathed Cable, 300V;

T90 Nylon or RW90 Insulation, PVC Jacket, Copper, Building Wire



Application:

NMD90 cables may be used for both exposed work in dry locations or concealed work in dry or damp locations.The maximum allowable conductor temperature is 90 ° C. The minimum recommended instal lation temperature is -25 ° C or -40 ° C for two-conductor cables and -25 ° C for three-conductor cables (with suitable handling procedures). Material should be properly stored above 0 ° C for 24 hours prior to installation.

Structure:

1.Conductor: Annealed copper conductors—compressed standing for stranded conductors

2.Insulation: PVC insulation and nylon covering or Cross-linked Polyethylene (XLPE)

3.Overall Jacket: PVC, Heat and moisture-resistant, flame retardant FT1.

Standard: CSA C22.2 No. 48 (non-metallic sheathed cable)

cUL File No.: E487898 **CSA file No.**: 271587 **Voltage**: 300V

Working temperature: -40°C/ -25°C MIN, 90°C MAX

Performance: FT-1 Flame retardant; Heat and moisture-resistant, SUN

Printing: HT CABLES CSA 271587 14AWG 2C NMD90 NYLON CABLE FT1 300V (-25°C) YEAR ****m

Jacket Color:

- WHITE - General Residential Wiring
- RED - 2 Black and Red conductors
- ORANGE - No. 10 AWG General Residential Wiring
- YELLOW - No. 12 AWG General Residential Wiring
- BLUE - No. 14 AWG - 2 black and white conductors

Technical data:

Conductor					Grounding Wire		Jacket Thickness	Cable Dimensions	Weight	Max. DC resistance at 20C (Ω/km)
Size AWG	NO.	No. of strands	Insulation Thickness	Nylon Thickness	Size AWG	No. of strands				
			mm	mm			mm	mm	kg/km	
14	2	1	0.76	0.13	14	1	0.76	4.0x9.9	103.8	8.62
12	2	1	0.76	0.13	14	1	0.76	5.3x11.2	131.5	5.43
10	2	1	0.76	0.13	12	1	0.76	5.9x12.8	185.3	3.41
8	2	7	0.89	0.16	10	1	1.14	8.1x16.4	314.6	2.14
6	2	7	1.14	0.20	8	7	1.14	9.6x20.2	477.2	1.35
14	3	1	0.76	0.13	14	1	0.76	8.8	132.9	8.62
12	3	1	0.76	0.13	14	1	0.76	9.8	173.9	5.43
10	3	1	0.76	0.13	12	1	0.76	11.0	247.5	3.41
8	3	7	0.89	0.16	10	1	1.14	14.8	414.1	2.14
6	3	7	1.14	0.20	8	7	1.14	18.1	631.4	1.36
4	3	7	1.14	0.20	8	7	1.52	21.4	917.3	0.848
3	3	7	1.14	0.20	6	7	2.03	24.1	1.188.0	0.673
2	3	7	1.14	0.20	6	7	2.03	25.8	1.400.9	0.534

All dimensions are nominal and subject to normal manufacturing tolerances.

NMD90 Aluminum

Non-metallic Sheathed Cable, 300V;
T90 Nylon or RW90 Insulation, PVC Jacket, Aluminum, Building Wire



Aluminum Conductors
300V / -40°C MIN
90°C MAX
XLPE Insulation
PVC Jacket

Application:

NMD90 cables may be used for both exposed work in dry locations or concealed work in dry or damp locations. The maximum allowable conductor temperature is 90° C. The minimum recommended installation temperature is -25 ° C or -40 ° C for two-conductor cables and -25 ° C for three-conductor cables (with suitable handling procedures). Material should be properly stored above 0 ° C for 24 hours prior to installation.

Structure:

1.Conductor: Aluminum Alloy 8000 series ACM with AL grounding wire

2.Insulation: PVC insulation and nylon covering or Cross-linked Polyethylene (XLPE)

3.Overall Jacket: Black, red and white for 3 conductor

4.Jacket: PVC, Heat and moisture-resistant, flame retardant FT1.

Standard: CSA C22.2 No. 48 (non-metallic sheathed cable)

cUL File No.: E487898 **CSA file No.**: 271587 **Voltage**: 300V

Working temperature: -40°C/ -25°C MIN, 90°C MAX

Performance: FT-1 Flame retardant; Heat and moisture-resistant

Printing: HT CABLES CSA 271587 ***AWG ***C NMD90 NYLON CABLE FT1 300V (-25°C) YEAR ****m

Jacket Color: ● · Grey

Technical data:

Conductor					Grounding Wire		Jacket Thickness	Cable Dimensions	Weight	Max. DC resistance at 20C (Ω/km)
Size AWG	NO.	No. of strands	Insulation Thickness	Nylon Thickness	Size AWG	No. of strands				
			mm	mm			mm	mm	kg/km	
8	3	7	0.89	0.16	10	1	1.14	14.8	231.8	3.52
6	3	7	1.14	0.20	8	7	1.14	18.1	337.6	2.21
4	3	7	1.14	0.20	8	7	1.52	21.4	475.6	1.39
3	3	7	1.14	0.20	6	7	2.03	24.1	614.7	1.1
2	3	7	1.14	0.20	6	7	2.03	25.8	701.2	0.875
8	4	7	0.89	0.16	10	1	1.14	14.8	285.9	3.52
6	4	7	1.14	0.20	8	7	1.14	18.1	421.4	2.21
4	4	7	1.14	0.20	8	7	1.52	21.4	591.4	1.39
3	4	7	1.14	0.20	6	7	2.03	24.1	760.7	1.1
2	4	7	1.14	0.20	6	7	2.03	25.8	870.6	0.875

All dimensions are nominal and subject to normal manufacturing tolerances.

NMWU

Non-metallic Sheathed Cable, 300V, CU, PVC or XLPE, PVC



Copper Conductors
300V / -40°C MIN
60°C MAX
PVC or XLPE Insulation
PVC Jacket

Application:

NWMU cables may be used for underground installations, including direct burial. It may also be used for environments exposed to the weather in dry and wet locations. The maximum allowable conductor temperature is 60 ° C. The minimum recommended installation temperature is -40 ° C for two-conductor cables (sizes AWG 14 to AWG 6) and -25 ° C for all other sizes. Material should be properly stored above 0°C for 24 hours prior to installation.

Structure:

1.Conductor: Annealed copper conductors with compressed standing for stranded conductors

2..Grounding Conductor: Annealed bare copper conductors

3..Insulation: Cross-linked Polyethylene (XLPE) or Polyvinyl chloride (PVC)

4.Jacket: PVC, Heat and moisture-resistant, flame retardant FT1.

5.Conductor Colors: White and black (for 2 conductor cables); white, black and red (for 3 conductor cables)

Standard: CSA C22.2 No. 48 (non-metallic sheathed cable)

cUL File No.: E487898 **CSA file No.:** 271587 **Voltage:** 300V

Working temperature: -40°C/ -25°C MIN, **60°C** MAX

Performance: FT-1 Flame retardant; Sun Res (SR)

Printing:HT CABLES CSA 271587 ***AWG ***C AL ACM NMWU NYLON CABLE FT1 300V (-25°C) YEAR ****m

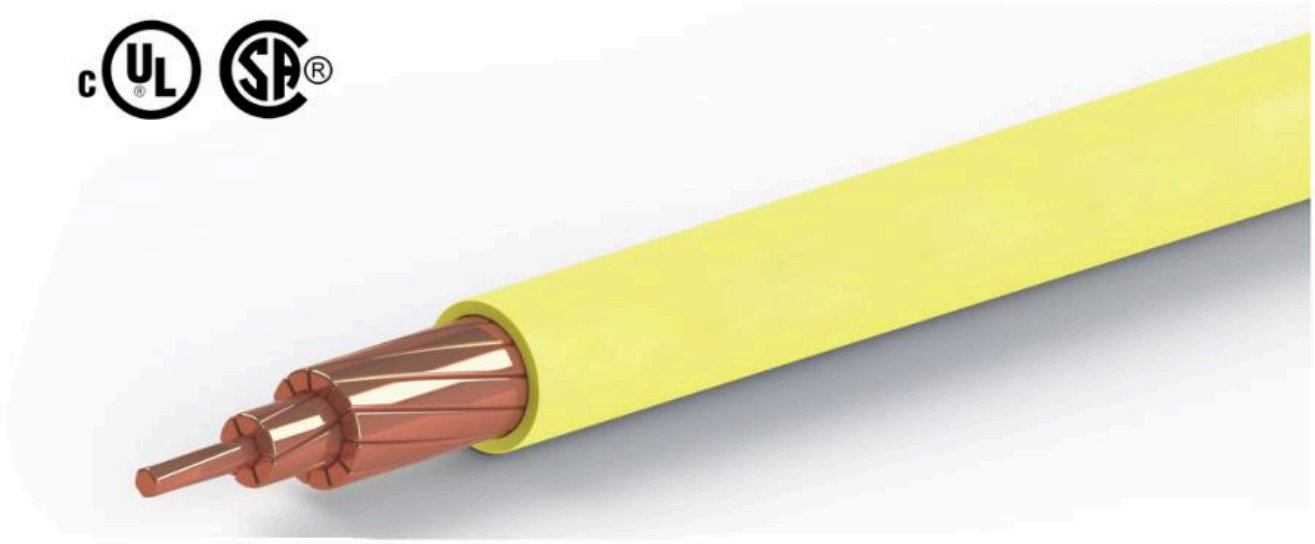
Technical data:

Conductor				Grounding Wire		Jacket Thickness	Cable Dimensions	Weight	Max. DC resistance at 20C (Ω/km)
Size AWG	NO.	No. of strands	Insulation Thickness	Size AWG	No. of strands				
			mm			mm	mm	kg/km	
14	2	1	1.52	14	1	0.76	6.3x12.7	142	8.62
12	2	1	1.52	14	1	0.76	6.8x13.6	173	5.43
10	2	1	1.52	12	1	0.76	7.3x15.1	234	3.41
8	2	7	1.90	10	1	1.14	9.9x20.0	402	2.14
6	2	1	2.29	8	7	1.14	11.6x23.5	565	1.35
14	3	1	1.52	14	1	0.76	11.9	181	8.62
12	3	1	1.52	14	1	0.76	12.8	227	5.43
10	3	1	1.52	12	1	0.76	13.9	306	3.41
8	3	7	1.90	10	1	1.14	18.6	523	2.14
6	3	7	2.29	10	7	1.14	22.3	752	1.35

All dimensions are nominal and subject to normal manufacturing tolerances.

RPVU90 RPV90

Photovoltaic Cable, 600V or 1000V or 2000V;
XLPE Insulation, Single Conductor, Copper or Aluminum



Application:

RPVU90, RPV90 cables may be installed indoors or outdoors, in raceways and conduits, both above and below ground, and may be direct buried. RPVU90 can be used in direct burial installations. It must comply with CE Code Rules 12-012 and 4-004. They are 90°C, 2 kV rated, and suitable for use in a pho-. tovoltaic system

Type RPVU90 cable is for use on the DC and AC side of a photovoltaic system, suitable for installation in both wet and dry locations, and may be exposed to sunlight
Type RPV90 cable is for use on the DC and AC side of a photovoltaic system, suitable for installation in dry locations, and may be exposed to sunlight.
RPVU90/RPV90 cables are RoHS Compliant

Structure:

Conductor: Stranded AA-8000 aluminum conductor size 6 AWG to 1000 kcmil, or Solid or stranded copper conductor size 14 AWG to 1000 kcmil

Insulation: Heat and moisture resistant, low temperature Cross-Linked Polyethylene (XLPE)

Standard:

- CSA C22.2 No. 38 - Thermoset-insulated Wires And Cables.
- CSA C22.2 No. 271-11 - Photovoltaic Cables.
- ASTM B3, B8, B787.

cUL File No.: E365883 **CSA file No.:** 271587 **Voltage:** 600V/1000V/2000V

Working temperature: -40°C MIN, 90°C MAX

Performance:

- Deformation-resistant at high temperatures
- Excellent moisture resistance, exceeds UL 44
- Stable electrical properties over a broad temperature range
- Increased flexibility
- Resistant to crush and compression cuts
- UV/sunlight-resistant

Printin:

RPVU90: HT CABLES CSA 271587 ***AWG(***mm2) RPVU90 CU/XLPE 90C DRY OR WET (-40C) FT1 DIR BUR SUN RES 2000V YEAR ****m

RPV90: HT CABLES CSA 271587 ***AWG(***mm2) RPV90 CU/XLPE 90C DRY (-40C) FT1 SUN RES 2000V YEAR ****m

Technical data:

1000V/2000V RPVU90 Copper Conductor / Aluminum AA8000 Conductor

Size AWG/ Kcmil)	Conductor		Ins.Thickness		Approx O.D.		Weight/Km		Max. DC resistance at 20 C	
	Nos of strands (CU)	Nos of strands (AL)	mm (CU)	mm (AL)	mm (CU)	mm (AL)	kgs (CU)	kgs (AL)	Ω/km (CU)	Ω/km (AL)
12	7	/	1.52	/	5.3	/	57.8	/	5.43	/
10	7	/	1.52	/	5.9	/	79.9	/	3.41	/
8	7	/	2.03	/	7.7	/	130.2	/	2.14	/
6	7	7	2.03	2.03	8.6	8.4	165.7	84	1.35	2.210
4	7	7	2.03	2.03	9.8	9.5	246.1	113	0.848	1.390
2	7	7	2.03	2.03	11.3	10.9	366.9	156	0.534	0.875
1/0	19	18	2.41	2.41	14.0	13.3	576.0	238	0.335	0.550
2/0	19	18	2.41	2.41	14.8	14.4	706.1	285	0.266	0.436
3/0	19	19	2.41	2.41	16.4	15.5	876.3	341	0.211	0.346
4/0	19	19	2.41	2.41	17.8	16.9	1.083.4	412	0.167	0.274
250	37	36	2.79	2.79	19.8	18.8	1.293.4	498	0.142	0.232
350	37	36	2.79	2.79	22.4	21.3	1.768.1	657	0.101	0.166
400	37	36	2.79	2.79	23.5	22.3	2.003.5	734	0.0885	0.145
500	37	36	2.79	2.79	25.6	24.3	2.473.2	888	0.0709	0.116
750	61	60	3.18	3.18	31.0	29.3	3.676.8	1.305	0.0472	0.0774

2000V RPV90 Aluminum AA8000 Conductor

Size (AwG/Kcmil)	Conductor	Ins. Thickness	Approx O.D.	Weight/Km	Max. DC resistance at 20 C)
	Nos of strands	mm	mm	kgs	Ω/km
6	7	1.78	7.9	74.1	2.210
4	7	1.78	9.0	102.0	1.390
3	7	1.78	9.6	120.5	1.100
2	7	1.78	10.4	143.6	0.875
1	18	2.29	12.2	192.5	0.693
1/0	18	2.29	13.1	228.6	0.550
2/0	18	2.29	14.2	274.0	0.436
3/0	19	2.29	15.3	329.6	0.346
4/0	19	2.29	16.7	398.8	0.274
250	36	2.67	18.5	482.6	0.232
350	36	2.67	21.0	639.1	0.166
400	36	2.67	22.0	715.2	0.145
500	36	2.67	24.0	867.0	0.116
750	60	3.05	29.0	1.271.3	0.0774
1500	91	3.56	41.2	2.452.8	0.0387

All dimensions are nominal and subject to normal manufacturing tolerances.

RW90/RWU90 Wire

Thermoset-Insulated Wire, 600V;
XLPE Insulation, Single Conductor, Copper or Aluminum



Application:

For open wiring and raceways(except cable throughs and ventilated flexible cableway) in dry or wet locations. For exposed wiring where exposed to weather with sunlight resistant insulation. Approved for use with ceiling fixtures

Structure:

Conductor: Annealed bare copper wires or compact aluminum 8000 series wires

Insulation: Cross-Linked Polyethylene (XLPE)

Standard:CSA Standard C22.2 No.38 (Thermoset-Insulated Wires and Cables)

cUL File No.:E466693 **CSA file No.:** 271587 **Voltage:** 600V 1000V or 2000V For RW90. 1000V For RWU90

Working temperature: -40°C MIN, 90°C MAX

Performance: Sun Res(SR), Cold(-40C)

Marking on the surface of cable:HT CABLES CSA 271587 ***AWG TYPE RW90 or RWU90 XLPE 90C FT4 SR 600V (-40°C) YEAR ****m

Technical data:

RW90 600V

Conductor			Insulation thickness	Approx. OD (mm)
AWG/KCMIL	Nos of strands(CU)	Nos of strands(AL)	(mm)	CU
14	1or7	1	0.76	3.4
12	1or7	1	0.76	3.9
10	1or7	1	0.76	4.5
8	19	19	1.14	6
6	19	19	1.14	7
4	19	19	1.14	8.2
2	19	19	1.14	9.8
1	19	19	1.4	10.9
1/0	19	19	1.4	11.9
2/0	19	18	1.4	12.9
3/0	19	19	1.4	14.2
4/0	19	19	1.4	15.6
250	37	37	1.65	17.2
350	37	37	1.65	19.8
400	37	37	1.65	20.9
500	37	37	1.65	23.1
750	61	61	2.03	28.3
1000	61	61	2.03	32.1

RW90 1000V

Conductor			Insulation thickness	Approx. OD (mm)
AWG/KCMIL	Nos of strands(CU)	Nos of strands(AL)	(mm)	CU
14	1or7	/	1.14	4.1
12	1or7	/	1.14	4.6
10	1or7	/	1.14	5.2
8	19	19	1.14	6.0
6	19	19	1.52	7.8
4	19	19	1.52	9
2	19	19	1.52	10.5
1/0	19	19	2.03	13.2
2/0	19	18	2.03	14.2
3/0	19	19	2.03	15.5
4/0	19	19	2.03	16.9
250	37	37	2.28	18.5
350	37	37	2.28	21.1
400	37	37	2.28	22.2
500	37	37	2.28	24.4
750	61	61	2.28	28.8
1000	61	61	2.28	32.6

All dimensions are nominal and subject to normal manufacturing tolerances.

T90 Nylon/TWN75

Thermoplastic-Insulated Wire, 600V;
PVC Insulation, Nylon Jacket, Single Conductor, Copper or Aluminum



Application:

General purpose building wire for installation as exposed or concealed wiring and in raceways (except cable troughs) in dry or damp locations. Approved for use with ceiling fixtures.

Structure:

1.Conductor: Annealed solid or stranded copper,aluminum optional

2.Insulation: PVC, color can be black, red, blue, green, white, orange etc

3.Jacket: Nylon

Standard: CSA C22.2 No. 75-14 - Thermoplastic-Insulated Wires and Cables

UL 83 - Thermoplastic-Insulated Wires and Cables

cUL File No.: E468871 **CSA file No.**: 271587 **Voltage**: 600V

Working temperature: 90°C dry for T90 Nylon,75°C wet or dry for TWN75 SUN

Printing: HT CABLES CSA 271587 ***AWG Type T90 NYLON or TWN75 STR CU/PVC/NYLON 600V 90C DRY OR WET YEAR ****m

Performance: FT-1 Flame retardant; Oil Res

Technical data:

Size AWG /Kcmil	Number of strands (Nos)	Insulation Thickness	Nylon Thickness	Overall Diameter	Approx Weight	DC conductor resistance at 20°C
		mm	mm	mm	Kg/Km	Ω/km
14	1	0.38	0.10	2.6	23.6	8.45
12	1	0.38	0.10	3.1	35.4	5.31
10	1	0.51	0.10	3.8	56.2	3.34
14	19	0.38	0.10	2.9	25.0	8.62
12	19	0.38	0.10	3.4	37.4	5.43
10	19	0.51	0.10	4.3	59.0	3.41
8	19	0.76	0.13	5.6	96.6	2.14
6	19	0.76	0.13	6.5	145.0	1.35
4	19	1.02	0.15	8.1	231.0	0.848
3	19	1.02	0.15	9.1	286.3	0.673
2	19	1.02	0.15	9.9	353.5	0.534
1	19	1.27	0.18	11.4	452.6	0.423
1/0	19	1.27	0.18	12.0	556.0	0.335
2/0	19	1.27	0.18	13.1	688.7	0.266
3/0	19	1.27	0.18	14.3	856.2	0.211
4/0	19	1.27	0.18	15.7	1.064.0	0.167
250	37	1.52	0.20	17.5	1.266.7	0.142
300	37	1.52	0.20	18.8	1.501.3	0.118
350	37	1.52	0.20	20.0	1.735.1	0.101
400	37	1.52	0.20	21.2	1.977.5	0.0885
500	37	1.52	0.20	23.5	2.452.0	0.0709
600	61	1.78	0.23	25.8	2.943.7	0.059
750	61	1.78	0.23	28.4	3.646.3	0.0472

All dimensions are nominal and subject to normal manufacturing tolerances.

TW/TW75/TWU/TWU75

Thermoplastic-Insulated Wire, 600V;
PVC Insulation, Single Conductor, Copper or Aluminum



Technical data: TW/TW75

Size AWG /Kcmil	Number of strands (Nos)	Insulation Thickness	Overall Diameter	Approx Weight	DC conductor resistance at 20°C
		mm	mm	Kg/Km	Ω/km
14	1	0.76	3.1	27.7	8.45
12	1	0.76	3.6	40.2	5.31
10	1	0.76	4.1	59.5	3.34
14	19	0.76	3.4	29.0	8.62
12	19	0.76	3.9	42.0	5.43
10	19	0.76	4.5	62.0	3.41
8	19	1.14	6.0	103.4	2.14
6	19	1.52	7.7	167.0	1.35
4	19	1.52	8.9	247.2	0.848
3	19	1.52	9.7	302.7	0.673
2	19	1.52	10.5	371.7	0.534
1	19	2.03	12.4	487.4	0.423
1/0	19	2.03	13.3	596.6	0.335
2/0	19	2.03	14.4	733.5	0.266
3/0	19	2.03	15.7	905.9	0.211
4/0	19	2.03	17.1	1121.0	0.167
250	37	2.41	19.0	1333.9	0.142
300	37	2.41	20.3	1.573.3	0.118
350	37	2.41	21.6	1.812.7	0.101
400	37	2.41	22.7	2058.8	0.0885
500	37	2.41	24.8	2531.8	0.0709
600	61	2.79	27.6	3048.7	0.0590
750	61	2.79	30.2	3762.0	0.0472

Application:

Suitable for use in conduit or other recognized raceways for services, feeders, and branch circuit wiring. Applications include general purpose grounding for power and distribution circuits in residential, industrial, and commercial buildings.

Structure:

1.**Conductor:**Annealed solid or stranded copper,aluminum optional
2.**Insulation:**PVC, color can be black, red, blue, green, white, purple, orange, etc

Standard: CSA C22.2 No. 75-14 - Thermoplastic-Insulated Wires and Cables

UL 83 - Thermoplastic-Insulated Wires and Cables

cUL File No.: E468871 **CSA file No.**: 271587 **Voltage**: 600V

Working temperature: 60°C wet or dry for TW,TWU75,75°C wet or dry for TW75,TWU75

Printing: HT CABLES CSA 271587 14AWG Type TW75/TWU75 STR CU/PVC 600V 75C DRY OR WET YEAR ****m

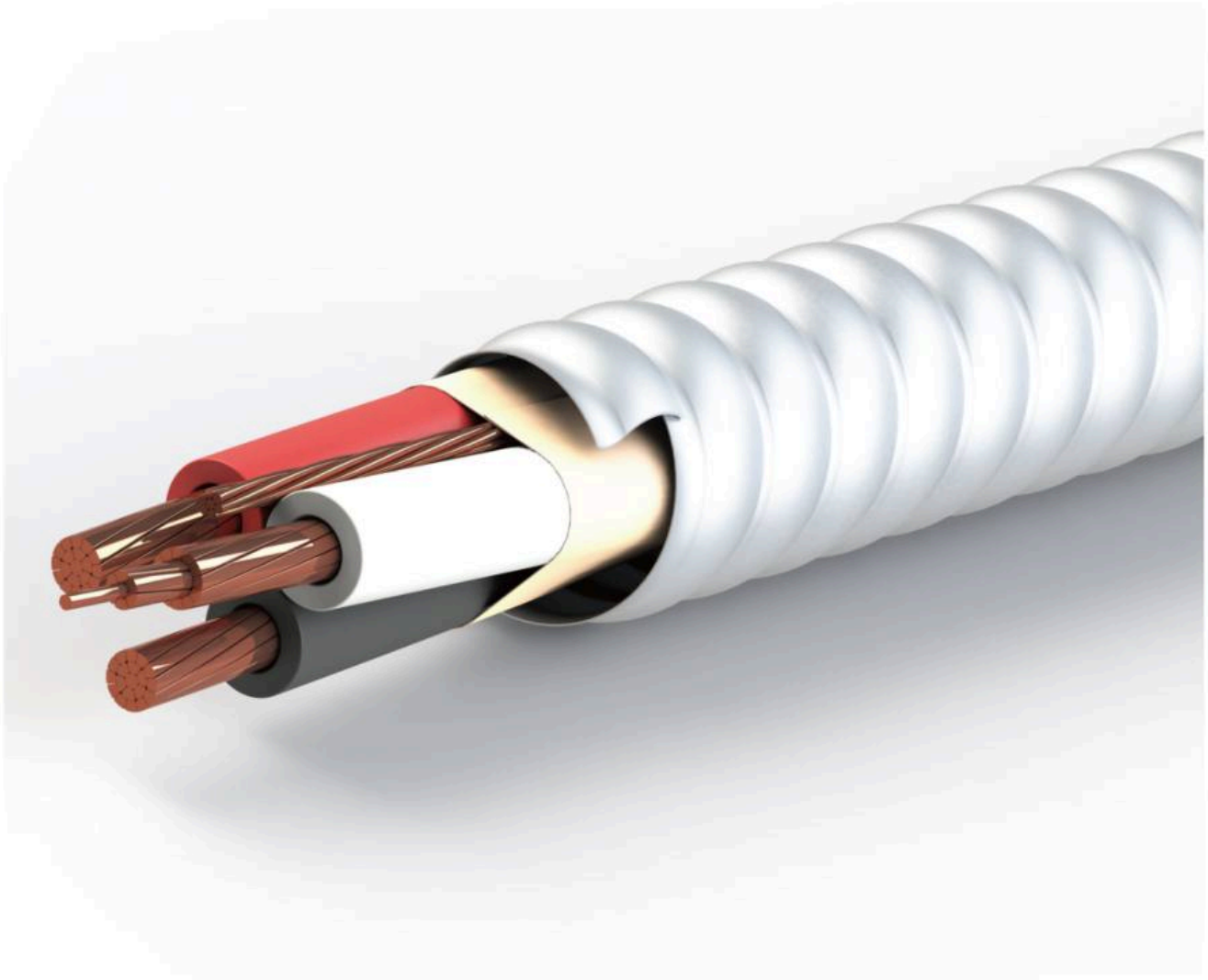
Technical data:TWU/TWU75

Size AWG /Kcmil	Number of strands (Nos)	Insulation Thickness	Overall Diameter	Approx Weight	DC conductor resistance at 20°C
		mm	mm	Kg/Km	Ω/km
14	1	1.52	4.7	42.1	8.45
12	1	1.52	5.1	56.2	5.31
10	1	1.52	5.6	77.4	3.34
14	19	1.52	4.9	44.3	8.62
12	19	1.52	5.4	59.0	5.43
10	19	1.52	6.0	81.2	3.41
8	19	2.03	7.8	133.0	2.14
6	19	2.03	8.7	187.3	1.35
4	19	2.03	10.0	270.5	0.848
3	19	2.03	10.7	327.7	0.673
2	19	2.03	11.5	398.7	0.534
1	19	2.41	13.2	510.8	0.423
1/0	19	2.41	14.0	621.5	0.335
2/0	19	2.41	15.1	760.4	0.266
3/0	19	2.41	16.4	935.2	0.211
4/0	19	2.41	17.8	1152.9	0.167
250	37	2.79	19.8	1369.3	0.142
300	37	2.79	21.1	1611.1	0.118
350	37	2.79	22.4	1852.8	0.101
400	37	2.79	23.5	2100.9	0.0885
500	37	2.79	25.6	2577.7	0.0709
600	61	3.18	28.4	3101.0	0.0590
750	61	3.18	31.0	3819.2	0.0472

All dimensions are nominal and subject to normal manufacturing tolerances.

AC90

Metal Clad Armored Cable, 600V;
RW90 Insulation, Armored, Multi-conductor, Copper or Aluminum



Application:

For open and concealed wiring in dry locations only. For use in cable troughs and ventilated flexible cableways in dry locations only. Minimum recommended installation temperature minus 40 ° C (with suitable handling procedures). Maximum conductor temperature 90 ° C. Approved for use with ceiling fixtures. Armoured cable for commercial, industrial and apartment use.

Structure:

1.Conductor: Copper conductor with Copper grounding wire 14AWG to 2AWG or aluminium alloy 8000 series ACM with AL groundig wire 6AWG to 750MCM

2.Insulation: Cross-linked polyethylene insulation (RW90 XLPE).

3.Assemble wrap: Conductor assembly paper wrapped

4.Armored: Interlocked aluminum armour

5.Number of conductor: Two, three or four core round laid

Standard: CSA C22.2 No. 51 - Armoured Cables

cUL File No.: E466697 **CSA file No.**: 271587 **Voltage**: 600V

Working temperature: in dry locations only at temperature not to exceed 90°C.

Performance: FT4 Flame retardant; Lead free and ROHS compliant.

Printing: HT CABLES CSA 271587 ***AWG ***C AC90 Armored CABLE FT4 600V (-40C) YEAR ****m

Technical data:

Copper conductor with sizes series in 2, 3, 4 core, other sizes also available

Conductor				Grounding Wire		OD	Weight	Max. DC Resistance of phase conductor at 20C
Size	No.	Nos. of strands	Insulation Thickness	Size	Nos. of strands			
Awg/kcmil			mm	agm		mm	Kg/km	Ω/km
14	2	1	0.76	14	1	11.1	157.2	8.45
12	2	1	0.76	14	1	11.9	187.1	5.31
10	2	1	0.76	12	1	13.0	246.6	3.34
14	3	1	0.76	14	1	12.3	188.3	8.45
12	3	1	0.76	14	1	13.2	231.4	5.31
10	3	1	0.76	12	1	14.3	308.7	3.34
8	3	1	1.14	10	1	19.1	505.2	2.14
6	3	7	1.14	8	7	21.3	705.1	1.35
4	3	7	1.14	8	7	24.1	965.5	0.848
3	3	7	1.14	6	7	25.4	1195.2	0.673
2	3	7	1.14	6	7	26.9	1410.2	0.534
14	4	1	0.76	14	1	13.3	203.2	8.45
12	4	1	0.76	14	1	14.3	260.0	5.31
10	4	1	0.76	12	1	15.6	355.7	3.34
8	4	1	1.14	10	1	18.5	525.1	2.14
6	4	7	1.14	8	7	23.5	875.0	1.35
4	4	7	1.14	8	7	26.0	1215.2	0.848

All dimensions are nominal and subject to normal manufacturing tolerances.

Technical data:

Aluminium conductor with sizes series in 3, 4 core, other sizes also available.

Conductor				Grounding Wire		OD	Weight	Max. DC Resistance of phase conductor at 20C
Size	No.	Nos. of strands	Insulation Thickness	Size	Nos. of strands			
Awg/kcmil			mm	agm		mm	Kg/km	Ω/km
6	3	7	1.14	8	7	21.4	324.2	2.21
4	3	7	1.14	6	7	23.9	436.3	1.39
2	3	7	1.14	6	7	26.8	577.0	0.875
1	3	19	1.40	4	7	30.5	695.1	0.639
1/0	3	19	1.40	4	7	32.5	826.3	0.550
2/0	3	19	1.40	4	7	34.9	971.2	0.436
3/0	3	19	1.40	4	7	37.7	1150.5	0.346
4/0	3	19	1.40	4	7	40.8	1421.7	0.274
250	3	37	1.65	2	7	42.5	1696.2	0.232
350	3	37	1.65	2	7	48.0	2200.5	0.166
500	3	37	1.65	1	19	54.8	2964.0	0.116
750	3	61	2.03	1/0	19	64	4194.2	0.0774
6	4	7	1.14	8	7	23.5	402.8	2.21
4	4	7	1.14	6	7	26	538.2	1.39
2	4	7	1.14	6	7	30	720.9	0.875
1	4	19	1.40	4	7	33.1	890.1	0.639
1/0	4	19	1.40	4	7	35.7	1044.6	0.550
2/0	4	19	1.40	4	7	38.4	1231.0	0.436
3/0	4	19	1.40	4	7	41.4	1512.5	0.346
4/0	4	19	1.40	4	7	43.0	1810.7	0.274
250	4	37	1.65	2	7	47.0	2158.2	0.232
350	4	37	1.65	2	7	52.8	2818.0	0.166
500	4	37	1.65	1	19	60.3	3817.0	0.116
750	4	61	2.03	1/0	19	70.3	5430.6	0.0774

All dimensions are nominal and subject to normal manufacturing tolerances.

ACWU90

Thermoset-Insulated Wire, 600V;
XLPE Insulation, Single Conductor, Copper or Aluminum



Application:

ACWU 90 cables are primarily intended for exposed and concealed wiring in dry or wet locations and where exposed to the weather. For use in ventilated, non-ventilated, and ladder type cable trays in wet and dry locations, direct earth burial, service entrance above or below ground.

Structure:

1.**Conductor:** Three or four compact 8000 Series ACM aluminum conductors with bare aluminum bonding wire in multi-conductor cables

2.**Insulation:** Cross-linked polyethylene insulation (XLPE)

3.**Assemble wrap:** Conductor assembly paper or PP tape wrapped

4.**Armored :** Interlocked aluminum armor

5.**Overall Jacket:** PVC jacket

6.**Conductor color:** Black, red and white for 3 conductor;
Black, red, blue and white for 4 conductor

Standard:CSA Standard CSA C22.2 No. 51-20 (Metal-clad Cable)

cUL File No.: E466697 **CSA file No.:** 271587 **Voltage:** 600V

Working temperature: -40°C/ -25°C MIN, 90°C MAX

Performance: FT4 Flame retardant; Sunlight Resistant

Printing: HT CABLES CSA 271587 ***MCM ***C ACWU90 AL ACM TYPE RW90 XLPE SUN RES FT4 600V (-40°C) YEAR ****m

Technical data: TWU/TWU75

No of phase	Size	Insulation Thickness	Bondingwire Size	PVC Jacket	Approximate Total Diameter	Approximate Net Cable Weight
	AWG or Kcmil	mm	AWG	mm	mm	Kg/Km
3	6	1.14	8	1.27	21.6	807.4
3	4	1.14	6	1.27	24.2	980.8
3	3	1.14	6	1.27	25.4	1071.4
3	2	1.14	6	1.27	27	1188.4
3	1	1.40	4	1.27	29.9	1411.6
3	1/0	1.40	4	1.27	31.8	1575.2
3	2/0	1.40	4	1.27	34	1772.8
3	3/0	1.40	4	1.27	36.6	2015.2
3	4/0	1.40	4	1.27	39.5	2304.1
3	250	1.65	2	1.52	43.5	2668.4
3	300	1.65	2	1.52	46.2	2980.2
3	350	1.65	2	1.52	48.8	3281.0
3	400	1.65	2	1.52	51.1	3584.2
3	500	1.65	1	1.52	58.7	4712.7
3	600	2.03	1	1.90	65.4	5478.4
3	750	2.03	1	1.90	67.2	6245.3
4	6	1.14	8	1.27	23.7	931.9
4	4	1.14	6	1.27	26.6	1141.9
4	3	1.14	6	1.27	28	1256.4
4	2	1.14	6	1.27	29.8	1401.9
4	1	1.40	4	1.27	33.2	1674.9
4	1/0	1.40	4	1.27	35.3	1881.3
4	2/0	1.40	4	1.27	37.7	2126.3
4	3/0	1.40	4	1.27	40.1	2416.1
4	4/0	1.40	4	1.27	43.8	2781.4
4	250	1.65	2	1.52	51.2	3708.4
4	300	1.65	2	1.52	54.3	4128.9
4	350	1.65	2	1.52	57.1	4534.4
4	400	1.65	2	1.52	59.7	4942.6
4	500	1.65	1	1.90	65.2	5733.4
4	600	2.03	1	1.90	71.8	6704.0
4	750	2.03	1	1.90	77.6	7847.1

All dimensions are nominal and subject to normal manufacturing tolerances.

TECK90

Metal Clad Armored Cable, 600v or 1000V;

RW90 Insulation, Armored, PVC Jacket, Multi-conductor, Copper or Aluminum



Application:

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. Sunlight Resistant. Typical applications are for control. lighting and power circuits in: pulp and paper mills, steel mills, food processing plants, commercial centers, mines, generating stations, refineries, industrial plants and chemical plants.

Structure:

1.Conductor: Annealed stranded bare copper wires, class B

2.Insulation: Cross-linked Polyethylene (XLPE) Type RW90.

Color: Black, white for 2 conductors;

Black ,red, blue for 3 conductors;

Black, red, blue, white for 4 conductors.

3.Bonding conductor: annealed bare copper wires,class B.

4.Inner Jacket: Flame-retardant and moisture resistant Polyvinyl Chloride (PVC)

5.Armour: Aluminum Interlock Armour (AIA); steel tape as the optional.

6.Outer-jacket: Low-temperature, moisture and sunlight resistant Polyvinyl Chloride (PVC), black

Standard:

- CSA C22.2 No. 131, Type TECK90 cable
- CSA C22.2 No. 38, Thermoset insulated wires and cables (Type RW90)

cUL File No.: E466697 **CSA file No.**: 271587 **Voltage**: 600V/1000V

Working temperature: -25°C MIN ,+90°C MAX

Performance: Low-temperature, moisture and sunlight resistant

FT4- Flame Test

Printing: HT CABLES TYPE TECK90 CSA 271587 600V XLPE ***AWG (***mm2) +***AWG (***) RW90 insulated -25C AIA PVC FT4 SR YEAR ****m

Technical data: 600V

Phase Conductor		Bonding Conductor	Phase Conductor single wire numbers	Insulation thickness	Jacket thickness	Approx. Diameter armoured	Nominal thickness of outer sheath	APprox. O D ofcable
Cores	AWG or KCMIL	AWG or KCMIL	Nos.	mm	mm	mm	mm	mm
2	14	14	7	0.76	1.14	14.1	1.00	16.0
2	12	14	7	0.76	1.14	15.1	1.00	17.0
2	10	12	7	0.76	1.14	16.3	1.00	18.0
2	8	10	7	1.14	1.52	19.5	1.00	22.0
2	6	8	7	1.14	1.52	21.3	1.00	23.0
2	4	8	7	1.14	1.52	23.5	1.00	26.0
2	3	6	7	1.14	1.52	24.7	1.00	27.0
2	2	6	7	1.14	2.03	27.3	1.00	29.0
2	1	6	19	1.40	2.03	29.9	1.00	32.0
2	1/0	6	19	1.40	2.03	31.8	1.00	34.0
2	2/0	6	19	1.40	2.03	33.9	1.00	36.0
2	3/0	4	19	1.40	2.03	36.2	1.00	38.0
2	4/0	4	19	1.40	2.03	38.9	1.20	41.0
2	250	4	37	1.65	2.03	42.2	1.20	45.0
2	300	4	37	1.65	2.03	44.7	1.20	47.0
2	350	3	37	1.65	2.79	48.6	1.20	51.0
2	400	3	37	1.65	2.79	50.8	1.20	53.0
2	450	3	37	1.65	2.79	52.8	1.20	55.0
2	500	3	37	1.65	2.79	54.7	1.20	57.0
2	550	3	37	2.03	2.79	58.2	1.50	61.0
2	600	2	61	2.03	2.79	60.1	1.50	63.0
2	650	2	61	2.03	2.79	61.7	1.50	65.0
2	700	2	61	2.03	2.79	63.4	1.50	66.0
2	750	2	61	2.03	2.79	64.9	1.50	68.0
3	14	14	7	0.76	1.14	14.7	1.00	17.0
3	12	14	7	0.76	1.14	15.7	1.00	18.0
3	10	12	7	0.76	1.14	17.0	1.00	19.0
3	8	10	7	1.14	1.52	20.4	1.00	22.0
3	6	8	7	1.14	1.52	22.3	1.00	24.0
3	4	8	7	1.14	1.52	24.8	1.00	27.0
3	3	6	7	1.14	1.52	27.1	1.00	29.0
3	2	6	7	1.14	2.03	28.8	1.00	31.0
3	1	6	19	1.40	2.03	31.6	1.00	34.0
3	1/0	6	19	1.40	2.03	33.6	1.00	36.0
3	2/0	6	19	1.40	2.03	35.8	1.00	38.0
3	3/0	4	19	1.40	2.03	38.4	1.00	41.0
3	4/0	4	19	1.40	2.03	41.3	1.20	44.0
3	250	4	37	1.65	2.03	44.8	1.20	47.0
3	300	4	37	1.65	2.03	49.1	1.20	51.0
3	350	3	37	1.65	2.79	51.6	1.20	54.0
3	400	3	37	1.65	2.79	54.0	1.20	56.0
3	450	3	37	1.65	2.79	56.2	1.20	59.0
3	500	3	37	1.65	2.79	58.2	1.20	61.0
3	550	3	37	2.03	2.79	62.0	1.50	65.0
3	600	2	61	2.03	2.79	64.1	1.50	67.0
3	650	2	61	2.03	2.79	65.8	1.50	69.0
3	700	2	61	2.03	2.79	67.6	1.50	71.0
3	750	2	61	2.03	2.79	69.3	1.50	72.0

All dimensions are nominal and subject to normal manufacturing tolerances.

Technical data: 1000V

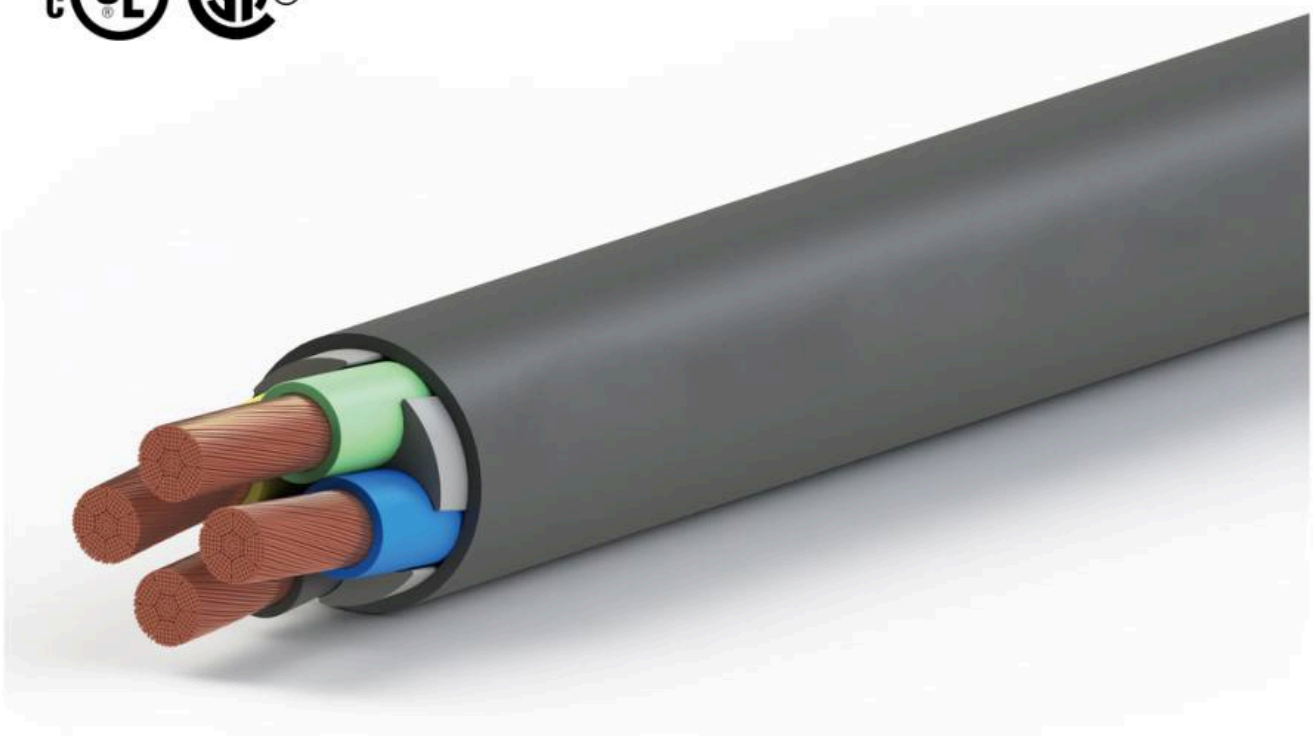
Phase Conductor		Bonding Conductor	Phase Conductor single wire numbers	Conductor diamete	Insulation Thickness	Inner jacket Thickness	Min.outer jacketThickness	Outer jacket DIA
Cores	AWG or KCMIL	AWG or KCMIL	Nos.	mm	mm	mm	mm	mm
2	12	14	7	2.34	1.14	1.14	1.00	19.2
3	12	14	7	2.34	1.14	1.14	1.00	19.9
2	10	12	7	2.94	1.14	1.14	1.00	20.4
3	10	12	7	2.94	1.14	1.52	1.00	22.0
2	8	10	7	3.72	1.14	1.52	1.00	22.7
3	8	10	7	3.72	1.14	1.52	1.00	23.7
2	6	8	7	4.68	1.52	1.52	1.00	26.1
3	6	8	7	4.68	1.52	1.52	1.00	28.4
2	4	8	7	5.88	1.52	2.03	1.00	30.6
3	4	8	7	5.88	1.52	2.03	1.00	32.0
2	3	6	7	6.6	1.52	2.03	1.00	32.0
3	3	6	7	6.6	1.52	2.03	1.00	33.5
2	2	6	7	7.41	1.52	2.03	1.00	33.6
3	2	6	7	7.41	1.52	2.03	1.00	35.3
2	1	6	19	8.40	2.03	2.03	1.00	37.6
3	1	6	19	8.40	2.03	2.03	1.00	39.6
2	1/0	6	19	9.00	2.03	2.03	1.00	38.8
3	1/0	6	19	9.00	2.03	2.03	1.20	41.4
2	2/0	6	19	10.10	2.03	2.03	1.20	41.5
3	2/0	6	19	10.10	2.03	2.03	1.20	43.8
2	3/0	4	19	11.30	2.03	2.03	1.20	43.9
3	3/0	4	19	11.30	2.03	2.03	1.20	46.4
2	4/0	4	19	12.70	2.03	2.03	1.20	46.7
3	4/0	4	19	12.70	2.03	2.03	1.20	50.4
2	250	4	37	13.90	2.28	2.03	1.20	51.1
3	250	4	37	13.90	2.28	2.79	1.20	55.6
2	300	4	37	15.20	2.28	2.79	1.20	55.3
3	300	4	37	15.20	2.28	2.79	1.20	58.4
2	350	3	37	16.40	2.28	2.79	1.20	57.7
2	400	3	37	17.60	2.28	2.79	1.20	60.1
3	400	3	37	17.60	2.28	2.79	1.50	64.3
2	500	3	37	19.80	2.28	2.79	1.50	65.2
3	500	3	37	19.80	2.28	2.79	1.50	69.1

All dimensions are nominal and subject to normal manufacturing tolerances.

SJOW SJOOW

Flexible Cords 300V;

EPR Insulation, CPE Jack, Multi-conductor, Copper



Application:

Type SJOOW SJOW Flexible Cords are permitted for use by Article 400 and related articles of the National Electrical Code. Type SJOW SJOOW Cords include wiring for portable tools, portable appli□ances, equipment, small motors and associated machinery.

Structure:

1.Conductor: Fully annealed, stranded bare copper, per ASTM B-174, sizes 18 - 2AWG

2.Insulation: Ethylene-propylene rubber (EPR)

1-core black

2-cores black/white

3-cores black/white/green

4-cores black/white/green/red

5-cores black/white/green/red/orange

3.Jacket: Black heavy duty CPE thermosetting compound

Standard: UL 62 & CSA C22.2 No. 49, Standard for Flexible Cords and Cables

cUL File No.: E468871 **Voltage**: 300V

Working temperature: -40°C/-25°C MIN. 90°C/105°C MAX

Performance: Water resistant and an oil resistant jacket

Lightweight and good flexibility

FT1 and FT2 Flame Test

Other Rubber Cable Optional: Type SJ, SJO ,SJOO

Printing: HT CABLES c(UL) E477374 ***AWG (***mm2) ***C SJOOW (-40C to 90C) FT2 WATER RESISTANT 300V YEAR ***m

SJOOW SJOW Technical data:

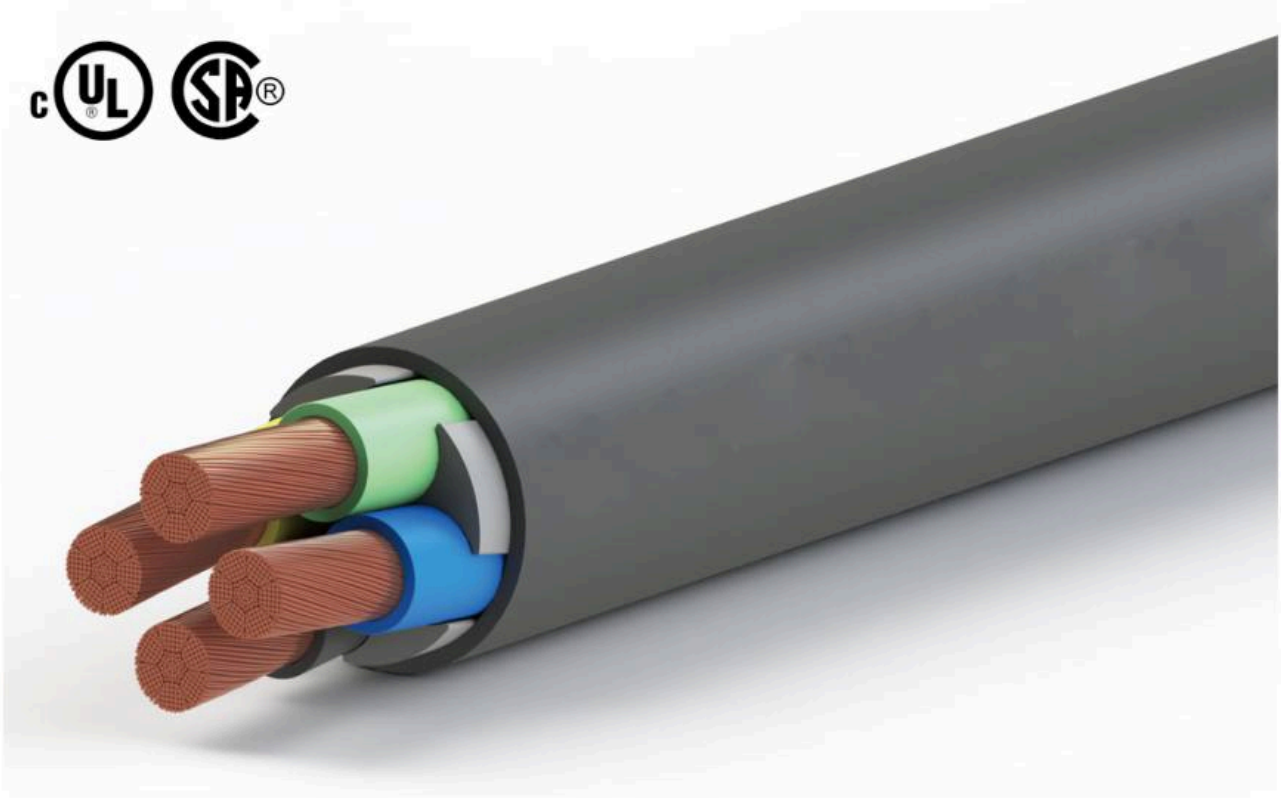
Size AWG /Kcmil	Core of conductor	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Overall Diameter mm	Weight Kg/Km	DC conductor resistance at 20°C Ω/km
18	2	0.76	0.76	7.2	71.9	22.4
18	3	0.76	0.76	7.6	87.1	22.4
18	4	0.76	0.76	8.4	106.8	22.4
18	5	0.76	0.76	9.2	128.7	22.4
16	2	0.76	0.76	7.8	90.2	14.1
16	3	0.76	0.76	8.3	111.3	14.1
16	4	0.76	0.76	9.1	136.7	14.1
16	5	0.76	0.76	10.1	165.8	14.1
14	2	0.76	0.76	8.6	115.3	8.88
14	3	0.76	0.76	9.2	144.2	8.88
14	4	0.76	0.76	10.1	180.1	8.88
14	5	0.76	0.76	11.1	218.9	8.88
12	2	0.76	1.14	10.3	172.3	5.58
12	3	0.76	1.14	11.0	214.4	5.58
12	4	0.76	1.14	12.0	266.5	5.58
12	5	0.76	1.14	13.2	322.3	5.58
10	2	1.14	1.52	14.0	303.9	3.51
10	3	1.14	1.52	14.9	376.1	3.51
10	4	1.14	1.52	16.3	467.6	3.51
10	5	1.14	1.52	17.9	565.4	3.51

All dimensions are nominal and subject to normal manufacturing tolerances.

SOW SOOW

Flexible Cords, 600V;

EPR Insulation, CPE Jack, Multi-conductor, Copper



Application:

Type SOW SOOW Flexible Cords are permitted for use by Article 400 and related articles of the National Electrical Code. SOOW SOW cords are designed for extra hard usage on industrial equipment, heavy tools, battery chargers, portable lights and power extensions. They are sunlight, water, oil and weather resistant and suitable for outdoor applications.

Structure:

1.Conductor: Fully annealed, stranded bare copper, per ASTM B-174, sizes 18 - 2AWG

2.Insulation: Ethylene-propylene rubber (EPR)

1-core black
2-cores black/white
3-cores black/white/green
4-cores black/white/green/red
5-cores black/white/green/red/orange

3.Jacket: Black heavy duty CPE thermosetting compound

Standard: UL 62 & CSA C22.2 No. 49, Standard for Flexible Cords and Cables

cUL File No.: E477374 **Voltage**: 600V

Working temperature: -40°C/-25°C MIN. 90°C/105°C MAX

Performance: Water resistant and an oil resistant jacket
Lightweight and good flexibility
FT1 and FT2 Flame Test
Sunlight Resistant

Other Rubber Cable Optional: Type S, SO ,SOO ,SV, SVO, SVOO

Printing: HT CABLES c(UL) E477374 ***AWG (***mm2) ***C SOOW (-40C to 90C) FT2 WATER RESISTANT 600V YEAR ***m

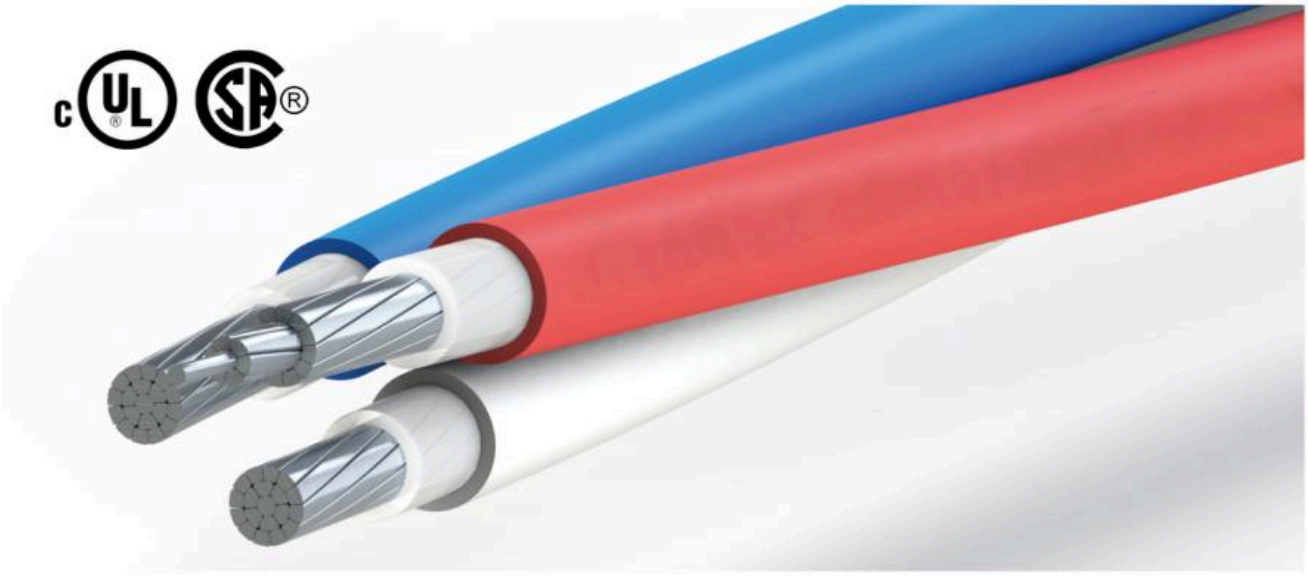
SOOW SOW Technical data:

Size AWG /Kcmil	Core of conductor	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Overall Diameter mm	Weight Kg/Km	Max. DC resistance at 20°C Ω/km
18	2	0.76	1.52	8.7	101.2	22.4
18	3	0.76	1.52	9.1	118.1	22.4
18	4	0.76	1.52	9.8	141.2	22.4
16	2	0.76	1.52	9.4	123.5	14.1
16	3	0.76	1.52	9.8	145.3	14.1
16	4	0.76	1.52	10.7	176.6	14.1
14	2	1.14	2.03	12.8	223.5	8.88
14	3	1.14	2.03	13.5	263.7	8.88
14	4	1.14	2.03	14.6	318.4	8.88
12	2	1.14	2.41	14.6	299.1	5.58
12	3	1.14	2.41	15.3	354.1	5.58
12	4	1.14	2.41	16.6	429.3	5.58
10	2	1.14	2.41	15.9	374.5	3.51
10	3	1.14	2.41	16.7	450.9	3.51
10	4	1.14	2.41	18.2	552.8	3.51
8	3	1.52	2.79	22.1	770.2	2.23
8	4	1.52	3.18	24.9	992.7	2.23
8	5	1.52	3.18	27.1	1180.3	2.23
6	3	1.52	3.18	25.3	1055.6	1.40
6	4	1.52	3.56	28.4	1358.2	1.40
6	5	1.52	3.56	30.9	1618.1	1.40
4	3	1.52	3.56	28.7	1412.9	0.882
4	4	1.52	3.94	32.0	1810.4	0.882
4	5	1.52	3.94	34.9	2163.8	0.882
2	3	1.52	3.94	33.6	2053.1	0.555
2	4	1.52	4.32	37.4	2631.4	0.555
2	5	1.52	4.32	40.8	3159.2	0.555

All dimensions are nominal and subject to normal manufacturing tolerances.

USEI-90

Low Voltage Cable, 600V; XLPE Insulation, PVC Jacket, Copper or Aluminum



Application:

USEI-90 underground distribution cable is designed to be used for secondary distribution and under□ground service operating at 600 volts or less. Cables are intended for underground installation, either direct burial or in duct systems.

Structure:

1.Conductors: Compact stranded aluminum conductors class B or Compact stranded copper conductors class B

2.Insulation: Cross-linked polyethylene (XLPE) insulation, which meeting the requirements of CSA C22.2 No. 38 for Type RW90 insulation

3.Jacket: PVC outer jacket, weather resistant, sunlight resistant, cut through resistant, FT1 rated material.

4.Neutral Conductor: The neutral conductor may be the same size as the power conductor, or it may be reduced.

Phase identification:

Which is provided by means of jacket color coding. All cables provided with sequential printing.

1. Three conductor cable consists of a red and a black colored power conductor and a white colored neutral.
2. Four conductor cable consists of a red, black, and blue colored phase conductor and a white colored neutra

Standard: • CSA C22.2 No. 52 Underground secondary and service-entrance cables
• CSA C22.2 No. 38 Thermoset-insulated wires and cables

cUL File No.: E466669 **Voltage**: 600V **Working temperature**: -40°C MIN, 90C MAX

Printing: HT CABLES c(UL) E466669 Type USEI ***AWG(***mm2) ***C -40C to 90C SUN RES 600V YEAR ****m

Technical data for aluminum conductor:

3 CONDUCTOR							
2 PHASE CONDUCTORS			1 FULL NEUTRAL CONDUCTOR			Cable	
SIZE	Insulation Thickness	Jacket Thickness	SIZE	Insulation Thickness	Jacket Thickness	Cable Diameter	Cable Weight
	mm	mm		mm	mm	mm	kg/km
4	1.14	0.76	4	1.14	0.76	20.5	354.5
2	1.14	0.76	2	1.14	0.76	23.8	491.7
1	1.4	1.14	1	1.4	1.14	28.5	687.4
1/0	1.4	1.14	1/0	1.4	1.14	30.4	805.0
2/0	1.4	1.14	2/0	1.4	1.14	32.8	952.2
3/0	1.4	1.14	3/0	1.4	1.14	35.4	1134.6
4/0	1.4	1.14	4/0	1.4	1.14	38.4	1357.5
250	1.65	1.65	250	1.65	1.65	44.3	1753.4
350	1.65	1.65	350	1.65	1.65	49.7	2262.3
500	1.65	1.65	500	1.65	1.65	57.0	3019.3
750	2.03	1.65	750	2.03	1.65	68.2	4357.1

Technical data for copper conductor:

3 CONDUCTOR							
2 PHASE CONDUCTORS			1 FULL NEUTRAL CONDUCTOR			Cable	
SIZE	Insulation Thickness	Jacket Thickness	SIZE	Insulation Thickness	Jacket Thickness	Cable Diameter	Cable Weight
	mm	mm		mm	mm	mm	kg/km
4	1.14	0.76	6	1.14	0.76	20.5	750.8
2	1.14	0.76	4	1.14	0.76	23.8	1122.4
1	1.4	1.14	3	1.4	1.14	28.5	1484.3
1/0	1.4	1.14	2	1.4	1.14	30.4	1810.7
2/0	1.4	1.14	1	1.4	1.14	32.8	2219.2
3/0	1.4	1.14	1/0	1.4	1.14	35.4	2731.1
4/0	1.4	1.14	2/0	1.4	1.14	38.4	3367.2
250	1.65	1.65	3/0	1.14	1.14	44.3	4138.8
350	1.65	1.65	250	1.65	1.65	49.7	5586.8
500	1.65	1.65	350	1.65	1.65	57.0	7771.2
750	2.03	1.65	500	1.65	1.65	68.2	11494.4

All dimensions are nominal and subject to normal manufacturing tolerances.

CIC -TC CABLE

Low Voltage Cable, 600V;

T90 NYLON Insulation, PVC Jacket, Multi-conductor, Copper



Application:

CIC-TC Cable used for power, control, signal, communication and lighting circuits in commercial and industrial environments. Suitable for installation in cable trays, supported by messenger wire in open air, raceways, channels, conduits and ducts. Approved for direct burial and outdoors in cable trays where sunlight resistant is required. Also may be installed in wet or dry locations or in areas exposed to chemicals and oils.

Structure:

1.Conductor: Stranded annealed bare copper

Ground Conductor(Optional): One (1) bare stranded copper conductor

2.Insulation: PVC/Nylon T90 Nylon

Optional Insulation: Cross-linked Polyethylene (XLPE) TYPE RW90.

3.Shielding(Optional): Copper Tape Shielding(CTS, Overlap @20%)

4.Outer Jacket: Flame-retardant, and sunlight resistant Polyvinyl Chloride (PVC), Black

Standard: C22.2 No. 230 & 239

cUL File No.: E468830 **Voltage**: 600V **Working temperature**: -25°C to +90°C

Performance: Self-extinguishing and flame retardant according to CSA FT4;

The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers;

UV resistant;

Direct burial rated.

Printing: HT CABLES c(UL) E468830 Type CIC-TC 600V **C **AWG PVC/N -25C SUN RES YEAR ****m

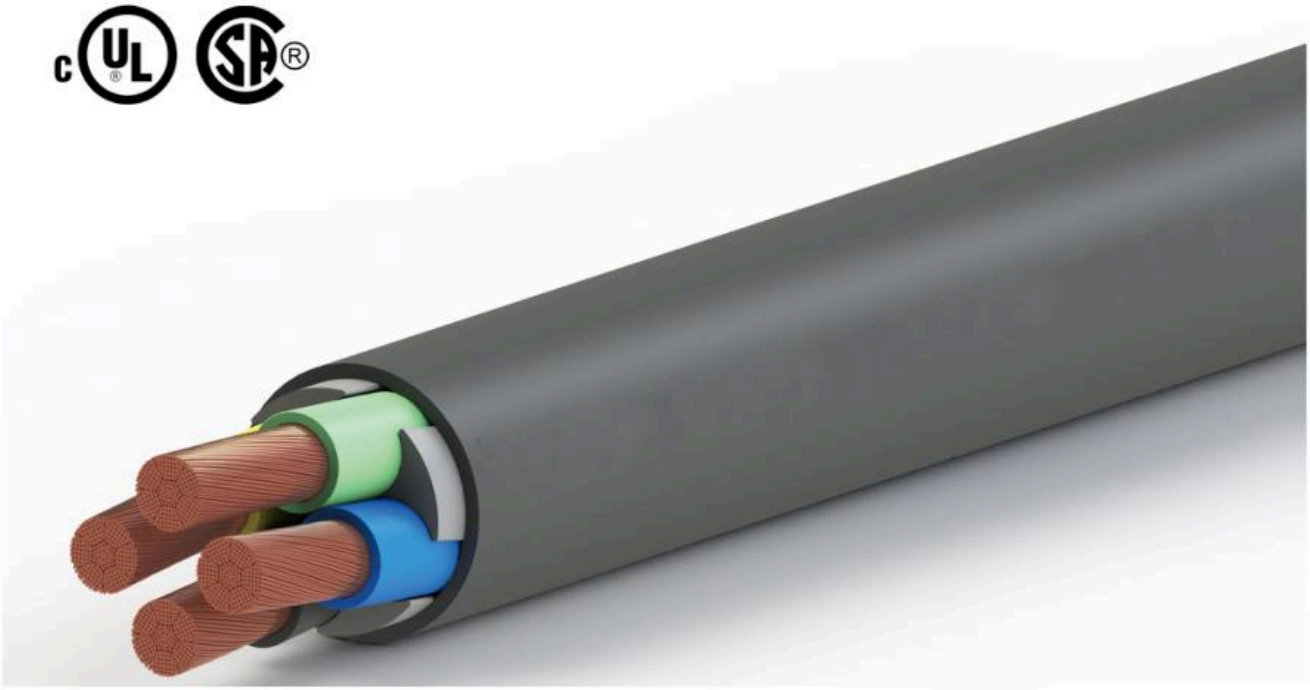
TYPE CIC-TC POWER CABLE PVC/Nylon Insulation

Conductor Size	No. of conductor	No. of Strands	Ground Wire	Insulation	Nylon	Jacket	Overall Diameter	Net
				Thickness	Thickness	Thickness		Weight
AWG			AWG	mm	mm	mm	mm	kg/km
14	3	7	14	0.38	0.10	1.14	8.9	146
14	4	7	14	0.38	0.10	1.14	9.7	178
12	3	7	14	0.38	0.10	1.14	9.7	190
12	4	7	14	0.38	0.10	1.14	10.8	236
10	3	7	12	0.51	0.10	1.14	11.6	281
10	4	7	12	0.51	0.10	1.14	12.9	352
8	3	7	10	0.76	0.13	1.52	15.5	450
8	4	7	10	0.76	0.13	1.52	16.8	523
6	3	7	8	0.76	0.13	1.52	18.4	626
6	4	7	8	0.76	0.13	1.52	20.2	1142
4	3	7	8	1.02	0.15	1.52	21.8	964
4	4	7	8	1.02	0.15	1.52	24.3	1197
3	3	7	6	1.02	0.15	2.03	23.5	1199
2	3	7	6	1.02	0.15	2.03	25	1432
2	4	7	6	1.02	0.15	2.03	28	1648
1	3	19	6	1.27	0.18	2.03	28.1	1720
1	4	19	6	1.27	0.18	2.03	31.7	2261
1/0	3	19	6	1.27	0.18	2.03	30.7	2160
1/0	4	19	6	1.27	0.18	2.03	33.4	2696
2/0	3	19	6	1.27	0.18	2.03	32.9	2584
2/0	4	19	6	1.27	0.18	2.03	36.9	3405
3/0	3	19	4	1.27	0.18	2.03	35.8	3158
3/0	4	19	4	1.27	0.18	2.03	40	4099
4/0	3	19	4	1.27	0.18	2.03	38.9	3834
4/0	4	19	4	1.27	0.18	2.03	44.9	5112

All dimensions are nominal and subject to normal manufacturing tolerances.

2000V Type W MSHA

Portable Power Cable, 2000V;
EPR Insulation, CPE Jacket, Multi-conductor, Copper



Application:

For use in all stationary, underground, or surface mining applications. For use with drills and pumps, and as portable power and temporary power supply cables.

Structure:

1.Conductors: Annealed flexible stranded tin copper

2.Separator: Tape separator between conductor and insulation (if necessary)

3.Insulation: Ethylene-propylene rubber (EPR)

1-core black

2-cores black/white

3-cores black/white/green

4-cores black/white/green/red

5-cores black/white/green/red/orange

4. Assembly: Power and ground cores cabled together to form a round core

5. Filler: rubber filled binder tape over core.

6. Jacket: Black heavy duty CPE thermosetting compound.

Standard:

- c(UL) listed
- MSHA listed
- ICEA Standard S-75-381/NEMA WC-58, ASTM B-172 and B-33
- CSA C22.2, No. 96 Portable Power Cords

cUL File No.: E482608 **MSHA Approval No.** 07-KA160016 **Voltage:** 2000V

Performance: Excellent flexibility ; Highly ozone, sun, weather and flame resistant ; Oil and heat resistant.

Printing: HT CABLES c(UL) E482608 ***AWG ***C TYPE W FT1 2000V YEAR ***m

Technical data:

Phase conductor no. x cross section	Phase conductor stranding	Nom. insulation thick.	Approx. diam.	Approx. weight	Ampacity (90°C conductor and 30°C ambient temp.)
AWG/KCMIL	N0.	mm	mm	kg/km	A
4-cores					
4x8	133	1.52	24.6	975	54
4x6	133	1.52	28.3	1.350	72
4x4	259	1.52	32.1	1.880	93
4x2	259	1.52	36.3	2.620	122
4x1	259	2.03	43.4	3.455	143
4x1/0	266	2.03	45.2	4.050	165
4x2/0	342	2.03	48	4.900	192
4x3/0	418	2.03	51.4	5.730	221
4x4/0	532	2.03	56.3	7.090	255
4x250	627	2.41	66.2	8.300	280
4x350	888	2.41	74.2	10.910	335
4x500	1221	2.41	85.3	14.730	395
5-cores					
5x8	133	1.52	27.2	1.155	50
5x6	133	1.52	31.5	1.525	68
5x4	259	1.52	35.2	2.130	88
5x2	259	1.52	39.8	3.050	116
5x1	259	2.03	47.1	3.965	136
5x1/0	266	2.03	50.4	5.070	150
5x2/0	342	2.03	54.1	5.350	172
5x3/0	418	2.03	57.6	7.035	200
5x4/0	532	2.03	62.6	8.200	230
5x250	627	2.41	69	9.425	256
5x500	1221	2.41	88.9	17.300	395

All dimensions are nominal and subject to normal manufacturing tolerances.

2000V Type G MSHA

Non-metallic Sheathed Cable, 300V;

T90 Nylon or RW90 Insulation, PVC Jacket, Copper, Building Wire



Application:

Type G cable is a heavy-duty industrial cable for use in flexible, portable, and extra-hard usage applications. Highly flexible and easy to work with in cold conditions. cUL Listed.

Structure:

1. **Conductors:** Annealed flexible stranded tin copper
2. **Separator:** Tape separator between conductor and insulation
3. **Insulation:** Ethylene-propylene rubber (EPR)
4. **Grounding conductors:** Four cores in annealed flexible stranded copper, EPR insulated
5. **Assembly:** Power and ground cores cabled together to form a round core
6. **Filler:** As needed to round the cable core
7. **Jacket:** Black, Chlorinated Polyethylene (CPE)

Standard:

- CSA C22. 2 No.96 Portable Power Cable
- cUL listed
- MSHA approved

cUL File No.: E482608 **MSHA Approval No.** 07-KA160016 **Voltage:** 2000V

Performance: Excellent flexibility ; Highly ozone, sun, weather and flame resistant ; Oil and heat resistant.

Printing: HT CABLES c(UL) E482608 ***/C ***AWG ***/GRD ***AWG TYPE G 2000V 90C SUN RES OIL RES 90C WET OR DRY FT1 FT5 (-40C) Year ***m

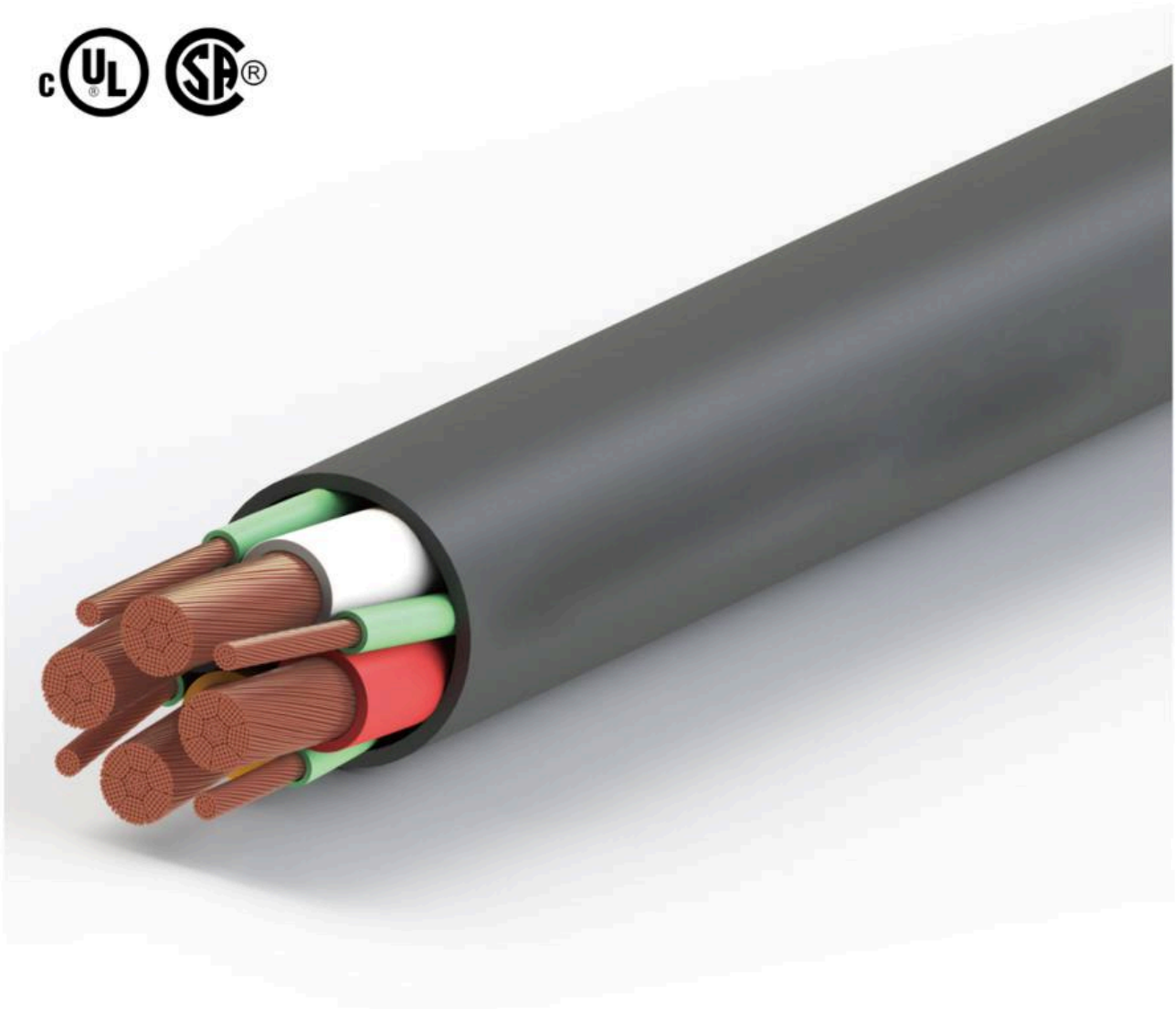
Technical data:

Phase Conductor No. x Cross Section	Crounding Wire No. x Section	Nominal Insulation Thickness	Approx. Diameter	Approx. Weight
(AWG/MCM)	(AWG)	(mm)	(mm)	(kg/km)
4x8	4x12	1.52	27.4	1.071.7
4x6	4x12	1.52	28.7	1.295.0
4x4	4x10	1.52	31.8	1.771.3
4x3	4x10	1.52	32.8	2.115.0
4x2	4x9	1.52	37.1	2.813.3
4x1	4x8	2.03	42.2	3.304.5
4x1/0	4x7	2.03	44.7	3.646.8
4x2/0	4x6	2.03	47.5	4.435.7
4x3/0	4x5	2.03	50.8	5.418.1
4x4/0	4x4	2.03	55.4	6.594.1
4x250	4x3	2.41	65.0	8.901.2
4x350	4x2	2.41	68.3	11.029.8
4x500	4x1/0	2.41	82.8	15.420.9

All dimensions are nominal and subject to normal manufacturing tolerances.

2000V Type G-GC MSHA

Portable Power Cable, 2000V;
EPR Insulation, CPE Jacket, Multi-conductor, Copper



Application:

For use in stationary, underground, or surface mining applications. For use with drills and pumps, and other portable power applications where equipment grounding is required.

Structure:

1. **Conductors:** Annealed flexible stranded tin copper
2. **Separator:** Tape separator between conductor and insulation
3. **Insulation:** Ethylene-propylene rubber (EPR) Color black/white/red
4. **Grounding conductors:** Annealed flexible stranded tin copper, green / green / yellow EPR insulation
5. **Assembly:** Power and ground cores cabled together to form a round core
6. **Filler:** rubber filled binder tape over core.
7. **Jacket:** Black heavy duty CPE thermosetting compound.

Standard:

- c(UL) listed
- MSHA listed
- ICEA Standard S-75-381/NEMA WC-58, ASTM B-172 and B-33
- CSA C22.2, No. 96 Portable Power Cables

cUL File No.: E482608 **MSHA Approval No.**07-KA160017 **Voltage:** 2000V

Performance: Excellent flexibility ; Highly ozone, sun, weather and flame resistant ; Oil and heat resistant.

Printing:HT CABLES c(UL) E482608 ***AWG ***C TYPE G-GC FT1 2000V YEAR ***m

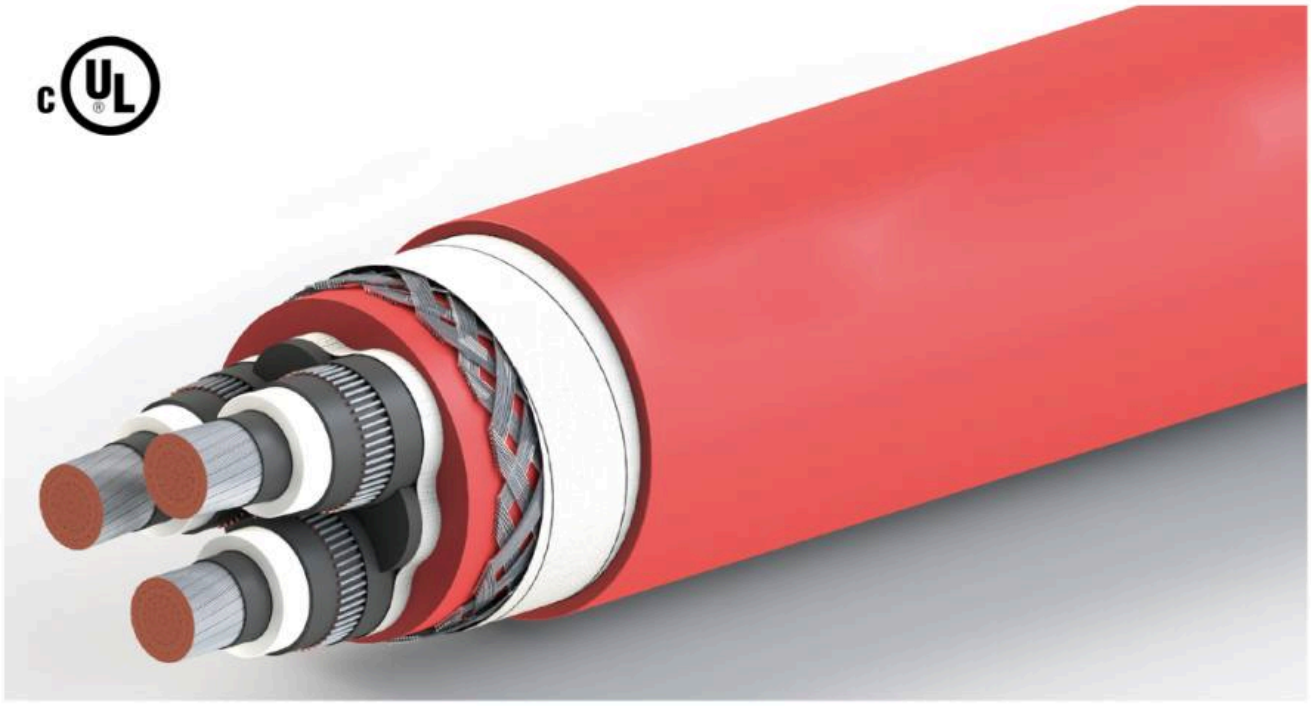
Technical data:

Phase conductor no. x cross section	Phase conductor stranding	Grounding wire no.x section	Ground check wire no.x section	Nom. insulation thick	Approx. diam.	Approx. weight	Ampacity (90°C conductor and 30°Cambient temp.)
AWG/KCMIL	No.	AWG	AWG	mm	mm	kg/km	A
3x6	133	2x10	1x10	1.52	26.6	1.095	79
3x4	259	2x8	1x10	1.52	30.2	1.585	104
3x3	259	2x8	1x10	1.52	31.5	1.855	120
3x2	259	2x7	1x10	1.52	34	2.200	138
3x1	259	2x6	1x8	2.03	38.3	2.805	161
3x1/0	266	2x5	1x8	2.03	41.9	3.410	186
3x2/0	342	2x4	1x8	2.03	44.4	4.035	215
3x3/0	418	2x3	1x8	2.03	48	4.865	249
3x4/0	532	2x2	1x8	2.03	51.8	5.915	287
3x250	627	2x2	1x6	2.41	60.7	7.365	320
3x350	888	2x1/0	1x6	2.41	68	9.860	394
3x500	1221	2x2/0	1x6	2.41	76.9	13.230	487

All dimensions are nominal and subject to normal manufacturing tolerances.

SHD -GC MSHA

Portable Power Cable, 8KV/15KV;
EPR Insulation, Shield, CPE Jacket, Multi-conductor, Copper



Application:

use in heavy duty medium voltage service as a power supply cable for mobile and portable mining equipment, loaders, drag lines, shovels, dredges and drills, where flex life is required, and for systems that require an internal ground check conductor for added safety. Type SHD-GC is for applications up to 5,000 volts and temperatures from -40°C to +90°C

Structure:

1. **Conductors:** 6awg thru 500kcmil annealed tinned coated copper conductor, bunched wires, rope-lay-stranded per ASTM B172.
2. **Conductor Shield:** Extruded thermosetting semi-conducting stress control layer over conductor
3. **Insulation:** Ethylene propylene Rubber (EPR) insulation.
4. **Insulation Shield:** A flexible coated copper/textile braid shield is applied over non-conducting overlapped tape.
5. **Ground Check Conductor:** Annealed tinned coated copper, rope-lay-stranded per ASTM B172, insulated with high-strength yellow polypropylene.
6. **Ground Conductor:** Annealed tinned coated copper, rope-lay-stranded per ASTM B172. Two conductors in contact with the flexible copper braid shield.
7. **Separator:** Polyamide open braid applied overall.
8. **Jacket:** Flame retardant, thermosetting Chlorinated Polyethylene (CPE).

Standard:
- ICEA S-75-381 Portable and Power Feeder Cables for use in mines and similar applications.
- CSA C22.2, No. 96 Portable Power Cables
- Meets flame test requirements and is accepted for listing by MSHA

Performance: Excellent flexibility ;
Highly ozone, sun, weather and flame resistant ;
Oil and heat resistant.

cUL File No.: E482605 **MSHA Approval No.** 07-KA160017 **Voltage:** 5KV-25KV
Working temperature: in dry locations only at temperature not to exceed **90°C.**
Printing: HT CABLES c(UL) E482605 Type SHD-GC ***AWG (KCMIL)***V 90C Portable Power Cables YEAR ****m

Technical data:

TYPE SHD-GC Cable 8000V

Cond. Number	Cond.Size (AWG/Kcmil)	Cond. Strands	NominalInsulation thickness	Ground size (AWG)	Ground check conductor (AWG)	Nominal jacket thickess	Approx. OD	Net weight
			mm			mm	mm	kg/km
3	4	259	3.80	8	8	5.20	49.3	3.594
3	2	259	3.80	6	8	5.60	53.8	4.554
3	1	259	3.80	5	8	5.60	56.1	5.104
3	1/0	259	3.80	4	8	5.60	58.9	5.700
3	2/0	329	3.80	3	8	6.00	62.5	6.593
3	3/0	413	3.80	2	8	6.40	66.5	7.738
3	4/0	532	3.80	1	8	6.40	69.8	8.713
3	250	608	3.80	1/0	6	6.40	73.4	9.948
3	300	741	3.80	1/0	6	6.70	77.2	11.384
3	350	851	3.80	2/0	6	7.10	81.3	12.739
3	500	1221	3.80	4/0	6	7.50	90.4	16.757

TYPE SHD-GC 15000 V

Cond. Number	Cond.Size (AWG/Kcmil)	Cond. Strands	NominalInsulation thickness	Ground size (AWG)	Ground check conductor (AWG)	Nominal jacket thickess	Approx. OD	Net weight
			mm			mm	mm	kg/km
3	2	259	5.30	6	8	6.00	61.2	5.529
3	1	259	5.30	5	8	6.00	64.0	6.042
3	1/0	259	5.30	4	8	6.40	67.0	6.927
3	2/0	329	5.30	3	8	6.40	69.3	7.783
3	3/0	413	5.30	2	8	6.70	73.7	8.922
3	4/0	532	5.30	1	8	6.70	77.5	10.209
3	250	608	5.30	1/0	6	6.70	78.7	11.149
3	350	851	5.30	1/0	6	7.10	85.9	13.194
3	500	1221	5.30	4/0	6	7.10	92.7	17.463

All dimensions are nominal and subject to normal manufacturing tolerances.

MV-90/MV-105 URD Cable

Underground Residential Distribution Cable, 5-35 KV;
TR -XLPE Insulation, Neutral Concentric wire, LLDPE Jack, Single Conductor, Copper or Aluminum



Application:

5-46 kV URD Cable (MV-90/MV-105)Underground Residential Distribution Cables are intended for use in dry or wet locations for distribution of single or three phase medium voltage power. Suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, sunlight, and where superior electri□cal properties are desired. These cables are capable of operating continuously at the conductor tem□perature not in excess of 90 ° C for normal operation. 130 ° C for emergency overload, and 250 ° C for short circuit conditions

Structure:

1.Conductor: Solid or Class B compressed concentric lay stranded 1350 aluminum or Copper conductors, Conductor moisture block (optional).

2.Conductor screen: Semi conductive extruded layer.

3.Insulation: Tree-Retardant Cross-linked Polyethylene (TR-XLPE).

4. Insulation screen: Semi conductive extruded layer, Easy strippable.

5. Neutral: Helically applied, annealed, solid bare copper wires.

6. Outer sheath: Sun resistant Linear Low Density Polyethylene (LLDPE) sheath, extruded to fill spaces between neutral wires.

Standard:

- UL1072 Medium-Voltage Power Cables.
- ICEA S-94-649 Concentric Neutral Cables Rated 5 - 46kV.
- AEIC CS8 Specification for Extruded Dielectric, Shielded Power Cables Rated 5 through 46 kV.
- CSA C68.5 - Primary shielded and concentric neutral cable for distribution utilities.

cUL File No.: E466020 **CSA file No.**: 271587 **Voltage**: Rated voltage (U): 5~46 kV

Working temperature: -40°C or -25°C MIN, 90°C or 105 °C MAX

Performance: Min. Bending Radius during Installation : 20xD

Min. Bending Radius Fix installed : 15Xd

Sun resistance

-40 Degree

Printing: HT CABLES (UL) E466020 ***AWG MV-90 35KV AL TRXLPE 1/3 CN 11x 14AWG 345 MILS 100% INS LLDPE JACKET SUN RES YEAR ****m

Optional:

- Voltage: 5KV, 8KV, 15KV, 25 KV, 28 KV, 35 KV, 46KV.
- Insulation Level: 100%, 133%, 173%.
- Conductor: Copper, Aluminum, Aluminum Alloy AA8000Series.
- Insulation material: EPR (UL Certification ONLY)
- Copper Concentric Copper Neutral: Full Neutral, 1/3 Neutral, 1/6 Neutral, 1/8 Neutral, 1/12 Neutral.
- Screen: Copper Tape Shield.
- Jacket: XLPE (UL Certification ONLY) or PVC.

Technical data:

URD Power Cable-AL TR-XLPE 15 kV 100% 1/3 Concentric Neutral XLPE
(International Unit System) Range and Dimension

SIZE AWG/MCM	Nominal conductor diameter	Nominal insulation thickness	Nominal diameter over insulation	Strands No.	Strands diameter	Jacket thickness	Jacket Diameter	Weight
AWG/MCM	(mm)	(mm)	(mm)	-	(mm)	(mm)	(mm)*	(kg/km)*
2	7.0	4.45	17.0	6	1.29	1.40	24.2	602.0
1/0	9.0	4.45	18.9	6	1.63	1.40	26.8	782.2
2/0	10.1	4.45	20.0	11	1.29	1.40	27.2	839.8
3/0	11.4	4.45	21.3	14	1.29	1.40	28.5	956.9
4/0	12.8	4.45	22.7	11	1.63	1.40	30.6	1.127.1
250	13.9	4.45	23.8	13	1.63	1.40	31.7	1.256.0
350	16.5	4.45	26.4	18	1.63	1.40	34.8	1.591.2
500	19.6	4.45	29.5	16	2.05	1.40	38.8	2.069.3
750	24.1	4.45	34.4	15	2.59	2.03	46.0	2.994.6
1000	27.8	4.45	38.1	20	2.59	2.03	49.7	3.699.1
1250	31.2	5.59	43.9	20	2.91	2.03	56.9	4.748.8
1500	34.1	5.59	47.3	24	2.91	2.03	60.2	5.489.6

All dimensions are nominal and subject to normal manufacturing tolerances.

URD Power Cable-AL TR-XLPE 15 kV 133% 1/3 Concentric Neutral XLPE
(International Unit System) Range and Dimension

SIZE AWG/MCM	Nominal conductor diameter	Nominal insulation thickness	Nominal diameter over insulation	Strands No.	Strands diameter	Jacket thickness	Jacket Diameter	Weight
AWG/MCM	(mm)	(mm)	(mm)	-	(mm)	(mm)	(mm)*	(kg/km)*
2	7.0	5.59	19.2	6	1.29	1.40	26.5	692.1
1/0	9.0	5.59	21.2	6	1.63	1.40	29.1	881.4
2/0	10.1	5.59	22.3	11	1.29	1.40	29.5	940.3
3/0	11.4	5.59	23.6	14	1.29	1.40	30.8	1.061.8
4/0	12.8	5.59	25	11	1.63	1.40	32.9	1.239.2
250	13.9	5.59	26.1	13	1.63	1.40	34.5	1.405.0
350	16.5	5.59	28.7	18	1.63	1.40	37.1	1.718.2
500	19.6	5.59	31.8	16	2.05	1.40	41.0	2.209.8
750	24.1	5.59	36.7	15	2.59	2.03	48.2	3.160.0
1000	27.8	5.59	40.4	20	2.59	2.03	52.7	3.953.9
1250	31.2	5.59	43.9	20	2.91	2.03	56.9	4.748.8
1500	34.1	5.59	47.3	24	2.91	2.03	60.2	5.489.6

All dimensions are nominal and subject to normal manufacturing tolerances.

ISO9001 ISO14001 ISO45001 ISO18001 ISO27001

Uniform Social Credit Code: 91210124MA10EAKC82



































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