



# **EQUIPT** RESOURCES

## **MATERIAL HANDLING**

## **SOLUTIONS**



[WWW.EQUIPTRESOURCES.COM](http://WWW.EQUIPTRESOURCES.COM)



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**PRODUCT NEEDS**



TIME EFFICIENT  
**COMPLETED ORDERS**

## **ABOUT US!**

EQUIPT RESOURCES IS THE LARGEST MANUFACTURER AND DISTRIBUTOR FOR FLAT CRANE CABLES AND ELECTRICAL COMPONENTS IN NORTH AMERICA. OUR NUMBER ONE FOCUS IS TO EFFICIENTLY PROVIDE OUR CLIENTS WITH THE BEST QUALITY PRODUCTS.



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# CONTENT

03	TECHNICAL DESCRIPTIONS
04	APPLICATION GUIDE
08	FLAT FESTOON CABLES
11	ROUND FESTOON CABLES
17	PENDANT CABLES
19	SEMOFLEX REELING CABLES
23	TPE ENCODER / RESOLVER FT1 AND FT4
25	SOOW
29	SEOOW - SHIELDED
30	TYPE W
33	DLO / RHH / RHW-2 / RW90
35	TYPE G
36	GG-C
38	SHD-GC
42	THHN / THWN OR MTW 600V
44	CAT.5E, CAT.6, CAT.6A, CAT.7, CAT.7A UL/CSA
45	PU-EF AND PU-EF (CP)
48	MULTIPLUS-P AND MULTIPLUS-CP
52	MOTOR POWER
53	HIGH TEMPERATURE AND SEVERE DUTY 150°C - 450 °C
58	80 SERIES PENDANT STATION





## REELING CABLES

**CONTROL AND POWER REELING CABLES FOR USE IN:**

- HOSTING SYSTEMS
- MOTOR-DRIVEN REELS
- SPRING-OPERATED REELS
- MONO-SPIRAL REELS
- DRAG CHAINS
- ROLLER-TYPE ACCUMULATOR
- GRAB UNLOADERS
- TUNNELING AND OTHER DRUM APPLICATION -
- SHIP TO SHORE CRANES (STS)
- RAIL MOUNTED GANTRY CRANES (RMG)
- SHIP UNLOADERS
- STACKERS RECLAIMER AND OTHER HEAVY MOBILE EQUIPMENT



## FESTOON AND PENDANT CABLES

**INDOOR/OUTDOOR POWER AND CONTROL CABLES USED IN FESTOON SYSTEMS ON HANDLING EQUIPMENT SUCH AS:**

- OVERHEAD CRANES
- MACHINE TOOLS
- E-CHAIN
- DRAG CHAIN CABLE CARRIER



## AWG TO METRIC CONVERSION SHEET

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AWG	MM2
30	0.05
28	0.08
26	0.14
24	0.25
22	0.34
21	0.38
20	0.50
18	0.75
18 UL	1.0 UL
17	1
16	1.5
14	2.5
12	4
10	6
8	10
6	16
4	25
2	35

AWG	MM2
1-1/0	50
2/0	70
3/0	95
4/0	120
300 MCM	150
350 MCM	185
500 MCM	240
600 MCM	300
750 MCM	400
1000 MCM	500

# APPLICATION GUIDE

MAIN APPLICATION	SUITABLE	NON-SUITABLE
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	FESTOON SYSTEM	RANDOM WOUND REEL • WITHOUT CABLE GUIDE SINGLE PLANE HORIZONTAL PAYOUT	• MONO-SPIRAL REEL WITH MULTI- ROLLER GUIDES • SINGLE PLANE HORIZONTAL PAYOUT	• RANDOM WOUND • MONO-SPIRAL • VERTICAL CABLE RUN • STRETCH APPLICATIONS	PENDANT PUSH-BUTTONS	POWER TRACK SYSTEM
FESTOON CABLE						
PENDANT CABLE						
TPE ENCODER						
SOOW						
TYPE W						
PU-EF						
MUTLI-PLUS						
MOTOR POWER CABLE						
DLO						
G-GC MINING GRADE						
G-GC INDUSTIRANL GRADE						
SEMOFLEX						
NSHTOU-J						
SHD-GC MINING GRADE						

## DEFINITIONS OF COLOR CODES

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BELOW ARE THE DETAILS OF ICEA/NEMA COLOR CODE METHODS. SOME OF THOSE ARE MENTIONED ON OUR PRODUCT PAGES.

METHOD TYPE	DESCRIPTION
<b>METHOD 1</b>	Colored insulation with contrasting ink tracers as required. Six different insulation colors and four different colored ink tracers are used to provide positive identification through 21 conductors. The same identification sequence may be repeated for cables containing more than 21 conductors.
<b>METHOD 2</b>	A neutral-colored compound is used with single or double spiral ink tracers as required to provide positive identification through 21 conductors. The identification sequence is repeated for cables containing more than 21 conductors.
<b>METHOD 3</b>	A neutral- or single-colored insulation compound is surface ink printed with both conductor number and color designation to provide positive identification through 21 conductors. The identification sequence is repeated for colors containing more than 21 conductors.
<b>METHOD 4</b>	A neutral- or single-colored insulation compound is surface ink printed with conductor number to provide positive conductor identification through 21 conductors. The identification sequence is repeated for cables containing more than 21 conductors.
<b>METHOD 5</b>	A color coding using braids. Also sometimes specified using colored insulation and contrasting tracers as an extension of Method 1 to eliminate duplicate conductors. Up to 127 positive conductor coding's are available with this method.

FOR MORE INFO: [WWW.ICEA.NET](http://WWW.ICEA.NET)

# CABLE STRANDING CHART

## IEC 60228/BS 6330 CONDUCTORS FOR INSULATED CABLES

MM2	AWG	Class 1	Class 2	Class 5	Class 6
<b>0.14</b>	<b>26</b>				<b>18x0.10</b>
0.25	24			14x0.16	32x0.10
<b>0.34</b>	<b>22</b>			<b>19x0.16</b>	<b>42x0.10</b>
0.50	20	1x0.80	74x0.30	16x0.21	28x0.16
<b>0.75</b>	<b>18</b>	<b>1x0.97</b>	<b>7x0.37</b>	<b>24x0.21</b>	<b>42x0.16</b>
1	18	1x1.13	7x0.43	32x0.21	56x0.16
<b>1.5</b>	<b>16</b>	<b>1x1.38</b>	<b>7x0.53</b>	<b>30x0.26</b>	<b>84x0.16</b>
2.5	14	1x1.78	7x0.67	50x0.26	140x0.16
<b>4</b>	<b>12</b>	<b>1x2.26</b>	<b>7x0.85</b>	<b>56x0.31</b>	<b>224x0.16</b>
6	10	1x2.76	7x1.04	84x0.31	192x0.21
<b>10</b>	<b>8</b>	<b>1x3.57</b>	<b>7x1.35</b>	<b>80x0.41</b>	<b>320x0.21</b>
16	6	1x4.50	7x1.70	128x0.41	512x0.21
<b>25</b>	<b>4</b>		<b>7x2.14</b>	<b>200x0.41</b>	<b>800x0.21</b>
35	2		7x2.52	280x0.41	1120x0.21
<b>50</b>	<b>1-1/O</b>		<b>19x1.78</b>	<b>400x0.41</b>	<b>705x0.31</b>
70	2/O		19x2.14	356x0.51	990x0.31
<b>95</b>	<b>3/O</b>		<b>19x2.52</b>	<b>485x0.51</b>	<b>1340x0.31</b>
120	4/O		37x2.03	614x0.51	1690x0.31
<b>150</b>	<b>300 MCM</b>		<b>37x2.25</b>	<b>765x0.51</b>	<b>2123x0.31</b>
185	350 MCM		37x2.52	944x0.51	1470x0.41
<b>240</b>	<b>500 MCM</b>		<b>61x2.25</b>	<b>1225x0.51</b>	<b>1905x0.41</b>
300	600 MCM		61x2.52	1530x0.51	2385x0.41
<b>400</b>	<b>750 MCM</b>		<b>61x2.85</b>	<b>2035x0.51</b>	
500	1000 MCM		61x3.20	1768x0.60	

**Notes:** The number of strands according to the IEC 60228 / BS 6360 shown in classes 1 & 2 is obligatory. Stranding shown in classes 5 & 6 gives the maximum strand diameters. In either case the strand gives the maximum resistance in ohms/km is permissible for non-tinned conductors. \* AWG sizes are for information only.



# PVC FESTOON CABLE

UL/CSA FESTOON CABLE 600 V / 2000 V 105° C / VW1 / FT1



## CONSTRUCTION

**CONDUCTORS:** FLEXIBLE STRANDED BARE COPPER CONDUCTORS

**INSULATION:** PVC

**JACKET:** YELLOW PVC

(BLACK ON REQUEST)

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• FLAT FLEXIBLE CONSTRUCTION</li> <li>• RATED FOR INDOOR AND OUTDOOR USE</li> <li>• DURABLE OIL RESISTANT OUTER JACKET</li> <li>• (UL) VW-1 / CSA FT1 – RATED -40° C TO 90° C</li> </ul>	<ul style="list-style-type: none"> <li>• (UL) FESTOON 600V 105° C</li> <li>• (UL) AWM 600 V 105° C</li> <li>• CSA FESTOON 600V 105° C</li> </ul>

CONDUCTORS AVAILABLE
BLACK
RED
BLUE
ORANGE
YELLOW
BROWN
RED/BLACK
BLUE/BLACK
ORANGE/BLACK
YELLOW/BLACK
BROWN/BLACK
BLACK/RED

## TECHNICAL DETAILS

**TEMPERATURE RANGE:** -40° C TO 105° C (STATIC),  
-10° C TO 70° C (DYNAMIC)

**AV VOLTAGE RAITING:** 600 V/2000V PEAK

**BEND RADIUS:** 5 X CABLE THICKNESS

## APPLICATION

DESIGNED FOR POWER AND CONTROL APPLICATIONS. BRIDGE AND GANTRY FESTOON.

## UNSHIELDED

PART NUMBER	# OF CORES	CONDUCTOR AWG	CONDUCTOR STRANDING	INSULATION THICKNESS INCHES (MM)	OD H X W INCHES (MM)	Cable Wt lbs/Mft (kg/km)	AMPACITY
67040250UL	4	14	105/34	0.0385 (0.98)	0.240 x 0.690 (6.10 x 17.53)	140 (208)	27
67040400UL	4	12	65/30	0.032 (0.81)	0.230 x 0.710 (5.84 x 18.03)	167 (248)	33
67040600UL	4	10	105/30	0.031 (0.79)	0.270 x 0.880 (6.86 x 22.35)	253 (376)	44
67041000UL	4	8	168/30	0.046 (1.17)	0.365 x 1.190 (9.27 x 30.23)	400 (595)	60
67041600UL	4	6	266/30	0.062 (1.57)	0.430 x 1.450 (10.92 x 36.83)	622 (926)	82
67042500UL	4	4	413/30	0.062 (1.57)	0.486 x 1.656 (12.34 x 42.06)	875 (1302)	104
67043500UL	4	2	665/30	0.062 (1.57)	0.558 x 1.959 (14.17 x 49.76)	1275 (1897)	142
67045100UL	4	1	836/30	0.080 (2.032)	0.645 x 2.185 (16.38 x 55.50)	1646 (2447)	158
67045000UL	4	1/0	1045/30	0.080 (2.032)	0.710 x 2.385 (18.03 x 60.58)	1972 (2933)	211
67047000UL	4	2/0	1330/30	0.082 (2.082)	0.783 x 2.712 (19.89 x 68.88)	2491 (3684)	245
67050400UL	5	12	65/30	0.030 (0.76)	0.219 x 0.845 (5.56 x 21.46)	199 (296)	23
67050600UL	5	10	105/30	0.031 (0.79)	0.270 x 1.080 (6.86 x 27.43)	299 (445)	31
67080150UL	8	16	65/34	0.031 (0.79)	0.200 x 1.100 (5.08 x 28.19)	175 (260)	14
67080250UL	8	14	105/34	0.0385 (0.98)	0.240 x 1.334 (6.10 x 33.88)	258 (384)	19
67080400UL	8	12	65/30	0.032 (0.81)	0.230 x 1.340 (5.84 x 34.04)	313 (466)	23
67120150UL	12	16	65/34	0.031 (0.79)	0.200 x 1.605 (5.08 x 40.77)	263 (391)	14
67120250UL	12	14	105/34	0.0335 (0.85)	0.240 x 1.950 (6.10 x 49.53)	364 (542)	19
67160150UL	16	16	65/34		0.197 x 2.192 (5.00 x 55.68)		

## SHIELDED

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INDIVIDUALLY SHIELDED CONDUCTORS WITH 36AWG SHIELD OF TINNED COPPER (90% COVERAGE) AND 3 NYLON RIPCORDS

**JACKET:** 0.55" (PVC)

**BEND RADIUS:** 4 X CABLE THICKNESS

**TEMPERATURE:** -40° C TO 105° C (STATIC) -10° C TO 70° C (DYNAMIC)

PART NUMBER	# OF CORES	CONDUCTOR AWG	CONDUCTOR STRANDING	INSULATION THICKNESS INCHES (MM)	OD H X W INCHES (MM)	Cable Wt lbs/Mft (kg/km)	AMPACITY
673080150UL	8	16	65/34	0.031 (0.79)	0.270 x 1.450 (6.9 x 36.8)	320 (470)	14
673120150UL	12	16	65/34	0.031 (0.79)	0.270 x 2.100 (6.86 x 53.34)	470 (699)	14

# FESTOON CABLE CONNECTOR



## CONSTRUCTION

**BODY MATERIAL:** ALUMINUM

**BUSHING MATERIAL:** NEOPRENE

**NUT:** ALUMINUM

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• INDOOR AND OUTDOOR LOCATIONS</li> <li>• TERMINATION WITH BOTH MECHANICAL AND ENVIRONMENTAL INTEGRITY WHICH MINIMIZES THE INCIDENCE OF DISCONNECTOR POWER.</li> <li>• IP 54 AND NEMA 3/3R, IP 65 AND NEMA 4, IP 67 AND NEMA 6</li> <li>• IP 52 AND NEMA 12 (ALUMINUM)</li> <li>• TEMPERATURE -40° / 150° C (ALUMINUM)</li> </ul>	<ul style="list-style-type: none"> <li>• UL</li> <li>• CSA</li> <li>• NEC</li> <li>• ROHS AND WEE</li> </ul>

## APPLICATION

SPECIFICALLY DESIGNED FOR FLAT CABLE, FESTOON APPLICATION, HEAVY-DUTY.

CONNECTOR PART NUMBER	CONNECTOR DIMENSION (INCHES)	CABLE PART NUMBER	CABLE DESCRIPTION
<b>XR-RSF-3001</b>	<b>1" Aluminum .660x.240</b>	<b>67040250UL</b>	<b>Flat PVC 14G 4c</b>
XR-RSF-3001	1" Aluminum .660x.240	67040400UL	Flat PVC 12G 4c
<b>XR-RSF-3003</b>	<b>1" Aluminum .890x.290</b>	<b>67040600UL</b>	<b>Flat PVC 10G 4c</b>
XR-RSF-4001	1-1/4" Aluminum 1.190x.350	67041000UL	Flat PVC 8G 4c
<b>XR-RSF-6002</b>	<b>2" Aluminum 1.460x.450</b>	<b>67041600UL</b>	<b>Flat PVC 6G 4c</b>
XR-RSF-6001	2" Aluminum 1.710x.500	67042500UL	Flat PVC 4G 4c
<b>XR-RSF-6008</b>	<b>2" Aluminum 1.90x.540</b>	<b>67043500UL</b>	<b>Flat PVC 2G 4c</b>
XR-RSF-4004	1-1/4" Aluminum 1.130x.220	67080150UL	Flat PVC 16G 8c
<b>XR-RSF-4002</b>	<b>1-1/4" Aluminum 1.370x.250</b>	<b>67080250UL</b>	<b>Flat PVC 14G 8c</b>
XR-RSF-4002	1-1/4" Aluminum 1.370x.250	67080400UL	Flat PVC 12G 8c
<b>XR-RSF-6004</b>	<b>2" Aluminum 1.650x.220</b>	<b>67120150UL</b>	<b>Flat PVC 16G 12c</b>
XR-RSF-7002	2-1/2" Aluminum 2.18x.300	67160150UL	Flat PVC 16G 16c
<b>XR-RSF-5015</b>	<b>1-1/2" Aluminum 1.415x.265</b>	<b>673080150UL</b>	<b>Flat PVC 16G 8c SHD</b>

# NEOPRENE FESTOON CABLE

UL FESTOON CABLE 600V / 2000V 90° C



## CONSTRUCTION

**CONDUCTORS:** STRANDED BARE COPPER CONDUCTORS

CLASS 5/6 STRANDING

**INSULATION:** RUBBER COMPOUND

**JACKET:** SPECIAL RUBBER COMPOUND

**JACKET COLOR:** BLACK

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>SIGNIFICANT SMALLER BENDING RADIUS COMPARED TO ROUND CABLES</li> <li>FREE FROM LACQUER DAMAGING SUBSTANCES AND SILICONE (DURING PRODUCTION)</li> <li>SELF-EXTINGUISHING AND FLAME RETARDANT ACC. TO IEC 60332-1</li> </ul>	<ul style="list-style-type: none"> <li>UL 4540</li> <li>ROHS CONFORM</li> </ul>

## TECHNICAL DETAILS

**TEMPERATURE RANGE** -40° C to 85° C (static)  
-35° C to 85° C (dynamic)

**AV VOLTAGE RAITING** 600 V

**BEND RADIUS** 4 x OD

## APPLICATION

POWER AND CONTROL CABLE FOR TROLLEY SYSTEMS, TRANSFER LINES, MACHINE-TOOLS, ON HOISTING DEVICES, LIFT, CRANE AND CONTAINER BRIDGES. ALSO IN APPLICATIONS WHERE CABLES ARE BENDED STRONGLY IN PERMANENT MOVING OPERATION IN ONE LEVEL. SUITABLE FOR DRY, HUMID AND WET ROOMS AND FOR OUTDOOR USE.



PART NUMBER	# OF CORES	CONDUCTOR AWG	OD H X W INCHES (MM)	CABLE WT LBS/MFT (KG/KM)	CABLE WT LBS/MFT (KG/KM)
68040150UL	4	16	5.4 x 16.6 (0.21 x 0.65) 6.4 x 17.3 (0.25 x 0.68)	58 (17.68)	180 (54.86)
68040250UL	4	14	6.6 x 18.7 (0.26 x 0.74) 7.8 x 20.7 (0.31 x 0.81)	96 (29.26)	260 (79.25)
68040400UL	4	12	8.0 x 23.0 (0.31 x 0.91) 9.4 x 25.3 (0.37 x 1.00)	154 (46.94)	410 (124.97)
68040600UL	4	10	8.7 x 25.4 (0.34 x 1.00) 10.3 x 28.0 (0.41 x 1.10)	230.00 (70.10)	500 (152.40)
68041000UL	4	8	9.9 x 30.3 (0.39 x 1.19) x 33.1 (0.43 x 1.30)	11.0 384 (117.04)	730 (222.50)
68041600UL	4	6	11.5x35.0 (0.45 x 1.38) 12.8 x 38.3 (0.50 x 1.51)	614 (187.15)	1030 (313.94)
68042500UL	4	4	13.1 x 41.5 (0.52 x 1.63) 14.4 x 44.8 (0.57 x 1.76)	960 (292.61)	1450 (441.96)
68043500UL	4	2	15.1 x 47.0 (0.62 x 1.85) 16.4 x 50.0 (0.65 x 1.97)	1344 (409.65)	1950 (594.36)
68045000UL	4	1	17.3 x 55.0 (0.68 x 2.17) 18.9 x 59.0 (0.74 x 2.32)	1920 (585.22)	2700 (822.96)
68047000UL	4	2/O	20.1 x 63.6 (0.79 x 2.50) 21.7 x 68.2 (0.85 x 2.68)	2688 (819.30)	3720 (1133.86)
68049500UL	4	3/O	22.7 x 72.5 (0.89 x 2.85) 24.3 x 77.1 (0.96 x 3.04)	3648 (1111.91)	4810 (1466.09)
68050250UL	5	14	6.6 x 24.0 (0.26 x 0.94) 7.8 x 26.0 (0.31 x 1.02)	120 (36.58)	330 (100.58)
68050400UL	5	12	8.0 x 29.0 (0.31 x 1.14) 9.4 x 32.2 (0.37 x 1.27)	192 (58.52)	520 (158.50)
68050600UL	5	10	8.7 x 31.7 (0.34 x 1.24) 10.3 x 35.0 (0.40 x 1.38)	288 (87.78)	640 (195.07)
68051000UL	5	8	9.9 x 38.0 (0.39 x 1.50) 11.0 x 41.5 (0.43 x 1.63)	480 (146.30)	930 (283.46)
68080150UL	8	16	5.4 x 29.3 (0.21 x 1.15) 6.4 x 32.0 (0.25 x 1.26)	115 (35.05)	340 (103.63)
68080250UL	8	14	6.6 x 35.0 (0.26 x 1.38) 7.8 x 38.0 (0.30 x 1.50)	192 (58.52)	500 (152.40)
68120150UL	12	16	6.0 x 43.5 (0.24 x 1.71) 7.2 x 47.5 (0.28 x 1.87)	173 (52.73)	550 (167.64)
68120250UL	12	14	7.2 x 50.4 (0.28 x 1.98) 8.2 x 54.8 (0.32 x 2.15)	288 (87.78)	800 (243.84)
68240150UL	24 (6X4)	16	11.5 x 52.3 (0.45 x 2.06) 12.5 x 55.3 (0.49 x 2.18)	351 (106.98)	1110 (338.33)
68240250UL	24 (6x4)	14	15.5 x 66.0 (0.61 x 2.60) 17.0 x 70.0 (0.67 x 2.76)	585 (178.31)	1850 (563.88)

# TPR FLAT FESTOON CABLE

**THERMOPLASTIC RUBBER**

**UL/CSA FESTOON CABLE 600V / 2000V 105° C / VW1 / FT1**



## CONSTRUCTION

**CONDUCTORS:** FLEXIBLE STRANDED BARE COPPER CONDUCTORS

**INSULATION:** THERMOPLASTIC RUBBER (TPR)

**JACKET:** BLACK THERMOPLASTIC RUBBER (TPR), YELLOW ON REQUEST

**COLOR:** BLACK NUMBERED AND GREEN/YELLOW (GROUND)

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• FLAT FLEXIBLE CONSTRUCTION</li> <li>• RATED FOR INDOOR AND OUTDOOR USE, UV, SUNLIGHT AND CHEMICAL RESISTANT</li> <li>• DURABLE OIL RESISTANT OUTER JACKET</li> <li>• FLAME RETARDANT</li> <li>• (UL) VW-1 / CSA FT1</li> <li>• WIDE OPERATIONAL TEMPERATURE RANGE (-80° TO 120° C)</li> <li>• VERY LOW TEMPERATURE FLEXIBILITY</li> <li>• CABLE PASSES -50° C COLD IMPACT TEST</li> </ul>	<ul style="list-style-type: none"> <li>• (UL) FESTOON 600V 105° C</li> <li>• (UL) AWM 600V 105°</li> <li>• CSA FESTOON 600V 105° C</li> <li>• ROHS COMPLIANT</li> </ul>

## TECHNICAL DETAILS

**TEMPERATURE RANGE:** -80° C TO 120° C (STATIC), -50° C TO 120° C (DYNAMIC)

**AV VOLTAGE RAITING:** 600 V/2000V PEAK

**BEND RADIUS:** 5 X OD

## APPLICATION

DESIGNED FOR EXTRA HARD USAGE POWER AND CONTROL APPLICATIONS. CRANE BRIDGE AND GANTRY TRAVEL, HOISTS, MONORAIL SYSTEMS, CATENARY SYSTEMS.

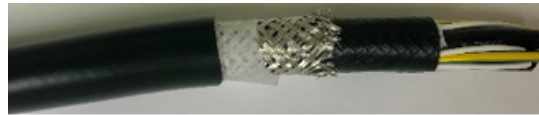


PART NUMBER	# OF CORES	CONDUCTOR AWG	CONDUCTOR STRANDING	INSULATION THICKNESS INCHES (MM)	JACKET THICKNESS INCHES (MM)	OD H X W INCHES (MM)	CABLE WT LBS/MFT (KG/KM)	AMPACITY A
67040250TUL	4	14	105/34	0.030 (0.76)	0.04 (1.01)	0.288 x 0.792 (7.30 x 20.10)	185 (275)	31
67040400TUL	4	12	65/30	0.032 (0.81)	0.04 (1.01)	0.310 x 0.880 (7.90 x 22.40)	240 (375)	36
67040600TUL	4	10	65/34	0.030 (0.76)	0.04 (1.01)	0.335 x 0.980 (8.5 x 24.90)	314 (467)	49
67041000TUL	4	8	105/30	0.045 (1.14)	0.048 (1.22)	0.451 x 1.354 (11.50 x 34.40)	565 (841)	63
67041600TUL	4	6	266/30	0.060 (1.52)	0.050 (1.27)	0.485 x 1.490 (12.30 x 37.80)	732 (1089)	83
67042500TUL	4	4	413/30	0.062 (1.57)	0.048 (1.22)	0.545 x 1.730 (13.80 x 43.90)	974 (1449)	111
67043500TUL	4	2	665/30	0.062 (1.57)	0.048 (1.22)	0.600 x 1.982 (15.40 x 50.30)	1442 (2146)	148
67047000TUL	4	2/0	1330/31	0.082 (1.57)	0.07 (1.78)	0.824 x 2.726 (20.90 x 69.20)	2702 (4021)	245
67051600TUL	5	6	266/30	0.060 (1.52)	0.050 (1.27)	0.457 x 1.810 (11.607 x 45.97)		83
67052500TUL	5	4	413/30	0.062 (1.57)	0.048 (1.22)	0.515 x 2.106 (13.081 x 53.49)		111
67053500TUL	5	2	665/30	0.062 (1.57)	0.048 (1.22)	0.579 x 2.47 (14.706 x 62.74)		148
67080150TUL	8	16	65/34	0.031 (0.79)	0.038 (0.96)	0.240 x 1.130 (6.10 x 28.70)	235 (350)	8
67080250TUL	8	14	105/34	0.030 (0.76)	0.04 (1.01)	0.288 x 1.509 (7.30 x 38.30)	356 (530)	25
67080400TUL	8	12	65/30	0.032 (0.81)	0.04 (1.01)	0.320 x 1.695 (8.10 x 43.10)	463 (689)	29
67120150TUL	12	16	65/34	0.031 (0.79)	0.038 (0.96)	0.241 x 1.662 (6.10 x 42.20)	340 (506)	17
67120250TUL	12	14	105/34	0.030 (0.76)	0.04 (1.01)	0.288 x 2.226 (7.30 x 56.50)	526 (783)	22



# TPR FESTOON / TPR VFD FESTOON TPR REELING CABLE

## FESTOON CABLE



## CONSTRUCTION

**CONDUCTORS:** FLEXIBLE STRANDED BARE COPPER CONDUCTORS

**INSULATION:** THERMOPLASTIC RUBBER (TPR)

**JACKET:** BLACK THERMOPLASTIC RUBBER (TPR), YELLOW ON REQUEST

**COLOR:** BLACK NUMBERED AND GREEN/YELLOW (GROUND)

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• FLAT FLEXIBLE CONSTRUCTION</li> <li>• RATED FOR INDOOR AND OUTDOOR USE, UV, SUNLIGHT AND CHEMICAL RESISTANT</li> <li>• DURABLE OIL RESISTANT OUTER JACKET</li> <li>• FLAME RETARDANT</li> <li>• (UL) VW-1 / CSA FT1</li> <li>• WIDE OPERATIONAL TEMPERATURE RANGE (-80° TO 120° C)</li> <li>• VERY LOW TEMPERATURE FLEXIBILITY</li> <li>• CABLE PASSES -50° C COLD IMPACT TEST</li> </ul>	<ul style="list-style-type: none"> <li>• (UL) FESTOON 600V 105° C</li> <li>• (UL) AWM 600V 105°</li> <li>• CSA FESTOON 600V 105° C</li> <li>• ROHS COMPLIANT</li> </ul>

## TECHNICAL DETAILS

**TEMPERATURE RANGE:** -80° C to 120° C (static), -50° C to 120° C (dynamic)

**AV VOLTAGE RAITING:** AC Voltage Rating: 600 V/2000V Peak

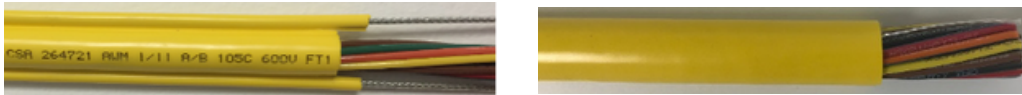
**BEND RADIUS:** 5 x OD

## APPLICATION

Designed for extra hard usage power and control applications. Crane Bridge and Gantry Travel, Hoists, Monorail Systems, Catenary Systems.

# PENDANT CABLE

**UL PENDANT CABLE / TYPE MTW / CSA AMW / 600V 90° / VW1 / FT1**



## CONSTRUCTION

**CONDUCTORS:** FLEXIBLE STRANDED BARE COPPER CONDUCTORS

**INSULATION:** PVC/NYLON INSULATION

**JACKET:** YELLOW PVC (BLACK ON REQUEST)

**OUTER SHEATH COLOR:** PER ICEA METHOD1, TABLE E-2 WITH ONE GREEN/YELLOW GROUND CONDUCTOR

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>FLEXIBLE CONSTRUCTION</li> <li>DURABLE OIL RESISTANT OUTER JACKET</li> </ul>	<ul style="list-style-type: none"> <li>UL PENDANT 600V 90° C</li> <li>TYPE MTW</li> <li>CSA AWM 600V 90° C</li> </ul>

## TECHNICAL DETAILS

**TEMPERATURE RANGE:** 90° C

**AV VOLTAGE RAITING:** 600 V

## APPLICATION

FOR USE IN HOIST AND PENDANT APPLICATIONS.

RATED FOR CONTINUOUS USE UP TO 90° C.

PART NUMBER	# OF CORES	CONDUCTOR AWG	CONDUCTOR STRANDING	INSULATION THICKNESS INCHES (MM)	JACKET THICKNESS INCHES (MM)	OD H X W INCHES (MM)	CABLE WT LBS/MFT (KG/KM)
621080150UL	8	16	65/34	0.021 (0.53)	0.053 (1.35)	0.490 (12.45)	216 (321)
621120150UL	12	16	65/34	0.021 (0.53)	0.063 (1.60)	0.566 (14.38)	260 (387)
621160150UL	16	16	65/34	0.021 (0.53)	0.063 (1.60)	0.624 (15.85)	315 (469)
621240150UL	24	16	65/34	0.021 (0.53)	0.080 (2.03)	0.789 (20.04)	475 (707)

## WITHOUT STEEL MESSENGER

PART NUMBER	# OF CORES	CONDUCTOR AWG	CONDUCTOR STRANDING	INSULATION THICKNESS INCHES (MM)	JACKET THICKNESS INCHES (MM)	OD H X W INCHES (MM)	CABLE WT LBS/MFT (KG/KM)
62X080150UL	8	16 (1.5)	65/34	0.021 (0.53)	0.048 (1.22)	0.479 (12.17)	158 (235)
62X120150UL	12	16 (1.5)	65/34	0.021 (0.53)	0.063 (1.60)	0.566 (14.38)	218 (324)
62X160150UL	16	16 (1.5)	65/34	0.021 (0.53)	0.063 (1.60)	0.624 (15.85)	276 (411)
62X240150UL	24	16 (1.5)	65/34	0.021 (0.53)	0.063 (1.60)	0.755 (19.18)	410 (610)
62X300150UL	30	16 (1.5)	65/34	0.016 (0.41)	0.063 (1.60)	0.803 (20.40)	465 (692)
62X360150UL	36	16 (1.5)	65/34	0.016 (0.41)	0.083 (2.10)	0.905 (22.99)	613 (912)

# PENDANT CABLE

UL TYPE STOOW CABLE/ CSA STOOW / 600V 105° / FT1



## CONSTRUCTION

**CONDUCTORS:** FLEXIBLE STRANDED BARE COPPER CONDUCTORS

**INSULATION:** PVC

**JACKET:** BLACK PVC, YELLOW ON REQUEST

**OUTER SHEATH COLOR:** YELLOW, BLUE, BROWN, ORANGE, WHITE, AND PURPLE

**STRAIN RELIEF:** A1/16” (7X7) INTERNAL GALVANIZED STEEL MESSENGER

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>FLEXIBLE CONSTRUCTION</li> <li>DURABLE OIL RESISTANT OUTER JACKET</li> </ul>	<ul style="list-style-type: none"> <li>UL STOOW 600V 105° C</li> <li>CSA STOOW 105° C</li> <li>FT1</li> </ul>

## TECHNICAL DETAILS

TEMPERATURE RANGE                      105° C

AV VOLTAGE RAITING                      600 V

## APPLICATION

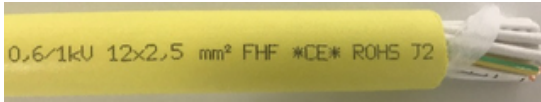
FOR USE IN HOIST AND PENDANT APPLICATIONS. RATED FOR CONTINUOUS USE UP TO 105° C.

### WITH INTERNAL STEEL MESSENGER

PART NUMBER	# OF CORES	CONDUCTOR AWG	CONDUCTOR STRANDING	INSULATION THICKNESS INCHES (MM)	JACKET THICKNESS INCHES (MM)	OD INCHES (MM)	CABLE WT LBS/MFT (KG/KM)
62Y030150UL	3	16	65/34	0.032 (0.81)	0.065 (1.65)	0.514 (13.06)	100 (149)
62Y050150UL	5	16	65/34	0.032 (0.81)	0.085 (2.16)	0.554 (14.07)	173 (257)
62Y070150UL	7	16	65/34	0.032 (0.81)	0.085 (2.16)	0.592 (15.04)	185 (275)

# SEMOFLEX

**REELING CABLE, HALOGEN FREE, COLD WEATHER RESISTANT**



## CONSTRUCTION

**CONDUCTORS:** PLAIN COPPER FINELY STRANDED, CLASS 5

**INSULATION:** SPECIAL POLYESTER BASE

**INNER SHEATH:** SPECIAL POLYURETHANE, YELLOW SUPPORT BRAID CONSISTING OF TEXTILE THREADS

**OUTER SHEATH:** SPECIAL PUR

**OUTER SHEATH COLOR:** YELLOW (BLACK ON REQUEST)

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• HALOGEN-FREE AND FLAME RESISTANT</li> <li>• OIL RESISTANT ACC. DIN VDE 0472 PART 803 TEST TYPE B</li> <li>• SPEED UP TO 650 FT/MIN. (HIGHER SPEED ON REQUEST)</li> </ul>	<ul style="list-style-type: none"> <li>• UL</li> <li>• CSA</li> <li>• VDE</li> </ul>

## TECHNICAL DETAILS

**TEMPERATURE RANGE** -45°C UP TO 90°C (STATIC), -40°C UP TO 90°C (DYNAMIC)

**VOLTAGE RATING** 600/ 1000 V

**BEND RADIUS** 5 X OD, 7.5 X OD SUGGESTED FOR HIGH SPEED

## APPLICATION

FOR USE IN WET AND DRY LOCATIONS WHERE HIGH MECHANICAL STRESS IS INVOLVED, EXPLOSIVE ENVIRONMENTS, HOISTING, TRANSPORTATION SYSTEMS, CABLE REELS, TRACTION MOTORS AND AGRICULTURAL MACHINERY.

PART NUMBER	CROSS SECTION MM2 (AWG)	OD H X W INCHES (MM)	CU WEIGHT KG/KM (LBS/MFT)	CABLE WEIGHT KG/KM (LBS/MFT)	TENSILE/STRENGTH N/LB	AMPACITY A
B2730040150	4 x 1.5 (16)	10.2 (0.40)	59 (39.70)	157 (105)	300	23
B2730050150	5 x 1.5 (16)	10.8 (0.425)	74 (49.80)	176 (118)	418	23
B2730070150	7 x 1.5 (16)	12.9 (0.51)	104 (70.00)	245 (165)	583	23
B2730120150	12 x 1.5 (16)	18.4 (0.72)	178 (119.80)	337 (226)	990	23
B2730180150	18 x 1.5 (16)	18.6 (0.73)	259 (174.30)	526 (353)	1485	23
B2730240150	24 x 1.5 (16)	21.3 (0.84)	356 (239.50)	662 (445)	1980	23
B2730240150BD*	24 x 1.5 Bd (16)	23.2 (0.91)	356 (239.50)	680 (475)	2770	23
B2730300150	30 x 1.5 (16)	24.6 (0.97)	446 (300.10)	901 (585)	1980	23
B2730300150BD*	30 x 1.5 Bd (16)	27.4 (1.08)	446 (300.10)	920 (620)	2475	23
B2730360150	36 x 1.5 (16)	25.4 (1.00)	535 (360.00)	934 (670)	2970	23
B2730360150BD*	36 x 1.5 Bd (16)	29.0 (1.14)	535 (360.00)	953 (740)	4150	23

PART NUMBER	CROSS SECTION MM2 (AWG)	OD MM (INCH)	CU WEIGHT KG/KM (LBS/MFT)	CABLE WEIGHT KG/KM (LBS/MFT)	TENSILE/STRENGTH N/LB	AMPACITY A
B2730420150	42 x 1.5 (16)	26.5 (1.04)	624 (419.90)	1175 (790)	3465	23
B2730420150BD*	42 x 1.5 Bd (16)	33.5 (1.28)	624 (419.90)	1286 (865)	4840	23
B2730040250	4 x 2.5 (12)	11.7 (0.46)	99 (66.60)	208 (139)	550	30
B2730050250	5 x 2.5 (12)	12.7 (0.50)	124 (83.40)	263 (177)	693	30
B2730070250	7 x 2.5 (12)	14.8 (0.58)	173 (116.40)	327 (220)	968	30
B2730120250	12 x 2.5 (12)	20.4 (0.80)	297 (199.80)	533 (351)	1650	30
B2730180250	18 x 2.5 (12)	21.1 (0.83)	446 (300.10)	725 (487)	2475	30
B2730240250	24 x 2.5 (12)	24.8 (0.97)	594 (399.70)	1075 (723)	3300	30
B2730240250BD*	24 x 2.5 Bd (12)	26.4 (1.04)	594 (399.70)	1098 (739)	4620	30
B2730300250	30 x 2.5 (12)	27.6 (1.09)	743 (499.90)	1295 (871)	4125	30
B2730300250BD*	30 x 2.5 Bd (12)	28.8 (1.13)	743 (499.90)	1381 (929)	5775	30
B2730360250	36 x 2.5 (12)	28.2 (1.11)	864 (581.30)	1410 (948)	4950	30
B2730360250BD*	36 x 2.5 Bd (12)	32.4 (1.28)	864 (581.30)	1739 (1170)	6930	30
B2730420250	42 x 2.5 (12)	31.4 (1.24)	1040 (699.80)	1511 (1016)	5775	30
B2730420250BD*	42 x 2.5 Bd (12)	33.5 (1.32)	1040 (699.90)	1848 (1243)	8085	30
B2730490250BD*	49 x 2.5 Bd (12)	38.0 (1.50)	1213 (816.20)	2271 (1528)	9416	30

\*\*BD = REINFORCED VERSION, HIGHER TENSILE/STRENGTH

## POWER CABLE

PART NUMBER	CROSS SECTION MM2 (AWG)	OD MM (INCH)	CU WEIGHT KG/KM (LBS/MFT)	CABLE WEIGHT KG/KM (LBS/MFT)	TENSILE/STRENGTH N/LB	AMPACITY A
B2730040400	4 x 4 (12)	12.5 (0.49)	158.0 (106.30)	270 (181)	880	41
B2730050400	5 x 4 (12)	14.3 (0.56)	198.0 (133.20)	362 (243)	1100	41
B2730040600	4 x 6 (10)	16.9 (0.66)	238.0 (160.10)	409 (275)	1320	53
B2730050600	5 x 6 (10)	17.8 (0.70)	297.0 (199.80)	511 (343)	1650	53
B2730070600	7 x 6 (10)	20.9 (0.82)	416.0 (279.90)	715 (480)	2310	53
B2730041000	4 x 10 (8)	19.6 (0.77)	396.0 (266.40)	633 (425)	2200	74
B2730051000	5 x 10 (8)	20.9 (0.82)	495.0 (333.10)	766 (515)	2750	74
B2730071000	7 x 10 (8)	25.8 (1.01)	693.0 (466.30)	1040 (701)	3850	74
B2730041600	4 x 16 (6)	23.8 (0.94)	634.0 (426.60)	936 (629)	3520	99
B2730051600	5 x 16 (6)	25.3 (0.996)	792.0 (532.90)	1173 (788)	4400	99
B2730042500	4 x 25 (4)	27.7 (1.09)	990.0 (666.10)	1483 (996)	5500	131
B2730052500	5 x 25 (4)	30.8 (1.21)	1250.0 (841.10)	1703 (1144)	6820	131
B2730043500	4 x 35 (2)	30.1 (1.185)	1386.0 (932.60)	2115 (1421)	7700	162
B2734160425	4 x 16 + 4 x 2.5 (6G 4c + 12G 4c)	23.6 (0.93)	733.0 (493.20)	1100 (739)	4510	99

# NSHTOU-J

**DRUM REELING CABLE**



## CONSTRUCTION

**CONDUCTORS:** TINNED COPPER CONDUCTOR, CLASS 5 STRANDING

**INSULATION:** RUBBER COMPOUND

**INNER SHEATH :** SPECIAL RUBBER COMPOUND

**OUTER SHEATH:** SPECIAL RUBBER COMPOUND, BLACK

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• SELF-EXTINGUISHING AND FLAME RESISTANT ACC. IEC 60332-1-2</li> <li>• OIL RESISTANT ACC. DIN VDE 0473 PART 811-2-1 IEC EN 60811-2-1</li> <li>• SPEED UP TO 120 M/MIN (ASK IF IT'S HIGHER SPEED)</li> </ul>	<ul style="list-style-type: none"> <li>• VDE</li> </ul>

## TECHNICAL DETAILS

**TEMPERATURE RANGE** -40°C UP TO 80°C (FIXED), -25°C UP TO 80°C (MOVED)

**AV VOLTAGE RAITING** 600 V/ 1000 V

**BEND RADIUS** 7.5 x OD

## APPLICATION

SUITABLE FOR USE AS TRAILING CABLE IN HOIST, FESTOON SYSTEM, MOBILE MACHINES, AND CONVEYORS. SUITABLE IN WET AND DRY LOCATIONS, AND FOR OUTDOOR INSTALLATIONS.

PART NUMBER	CROSS SECTION MM2 (AWG/MCM)	OD MM (INCH)	CU WEIGHT KG/KM (LBS/MFT)	CABLE WEIGHT KG/KM (LBS/MFT)
630400150	4 x 1.5 (16)	11.5 - 15.0 (0.45-0.59)	58 (39.00)	234 (157.40)
630400250	4 x 2.5 (12)	14.5 - 18.0 (0.57-0.70)	96 (64.60)	368 (247.60)
630400400	4 x 4 (12)	16.0 - 19.5 (0.63-0.77)	154 (103.60)	551 (370.70)
630400600	4 x 6 (10)	17.5 - 21.0 (0.69-0.83)	241 (162.20)	591 (397.70)
630401000	4 x 10 (8)	22.5 - 27.0 (0.88-1.06)	404 (271.80)	973 (654.70)
630401600	4 x 16 (6)	26.0 - 30.5 (1.02-1.20)	645 (434.00)	1387 (933.20)
630402500	4 x 25 (4)	31.5 - 36.0 (1.24-1.42)	1005 (676.20)	2026 (1363.20)
630403500	4 x 35 (2)	34.5 - 39.0 (1.36-1.54)	1382 (929.90)	2568 (1727.90)
630405000	4 x 50 (1-1/0)	40.0 - 45.5 (1.57-1.79)	2024 (1361.80)	3594 (2418.20)
630407000	4 x 70 (2/0)	43.0 - 48.5 (1.69-1.90)	2833 (1906.20)	4637 (3120.00)
630409500	4 x 95 (3/0)	52.5 - 58.0 (2.06-2.28)	3845 (2587.10)	6470 (4353.30)
630412000	4 x 120 (4/0)	58.0 - 64.5 (2.28-2.54)	4857 (3268.00)	7990 (5376.10)
630415000	4 x 150 (300)	63.0 - 69.5 (2.48-2.74)	5923 (3985.30)	9706 (6530.70)
630418500	4 x 185 (350)	68.5 - 75.0 (2.70-2.95)	7105 (4780.60)	9730 (6546.80)
630500150	5 x 1.5 (16)	12.5 - 16.0 (0.49-0.63)	72 (48.40)	275 (185.00)
630500250	5 x 2.5 (12)	15.0 - 18.5 (0.59-0.73)	123 (82.8)	426 (286.60)
630500400	5 x 4 (12)	17.5 - 21.0 (0.69-0.83)	200 (134.6)	615 (413.80)
630500600	5 x 6 (10)	19.0 - 23.5 (0.75-0.93)	296 (199.2)	753 (506.70)
630501000	5 x 10 (8)	24.5 - 29.0 (0.96-1.14)	528 (355.30)	1188 (799.30)
630501600	5 x 16 (6)	28.0 - 32.5 (1.10-1.28)	844 (567.90)	1666 (1121.00)
630502500	5 x 25 (4)	33.5 - 38.0 (1.32-1.50)	1260 (847.80)	2530 (1702.30)
630503500	5 x 35 (2)	38.0 - 43.5 (1.50-1.17)	1770 (1190.90)	3420 (2301.10)
630700150	7 x 1.5 (16)	15.5 - 19.0 (0.31-0.75)	105 (70.6)	414 (278.6)
631200150	12 x 1.5 (16)	18.0 - 22.5 (0.70-0.89)	196 (131.90)	579 (389.6)
631800150	18 x 1.5 (16)	21.0 - 25.5 (0.83-1.00)	271 (182.30)	801 (539.00)
632400150	24 x 1.5 (16)	24.0 - 28.5 (0.94-1.12)	392 (263.80)	1024 (689.00)
633000150	30 x 1.5 (16)	26.0 - 30.5 (1.02-1.200)	450 (302.80)	1228 (826.30)
634200150	42 x 1.5 (16)	32.0 - 36.5 (1.26-1.44)	646 (434.70)	1634 (1099.40)
630700250	7 x 2.5 (12)	17.5 - 21.0 (0.69-0.82)	180 (121.10)	577 (388.20)
630800250	8 x 2.5 (12)	20.0 - 23.5 (0.78-0.93)	192 (129.20)	700 (471.00)
631200250	12 x 2.5 (12)	21.0 - 25.5 (0.69-1.00)	308 (207.20)	775 (521.50)
631800250	18 x 2.5 (12)	24.0 - 28.5 (0.94-1.12)	451 (303.50)	1195 (804.10)
632400250	24 x 2.5 (12)	29.0 - 33.5 (1.14-1.32)	616 (414.50)	1566 (1053.70)
633000250	30 x 2.5 (12)	31.0 - 35.5 (1.24-1.40)	771 (518.80)	1743 (1172.80)
634500250	45 x 2.5 (12)	42.5 - 47.0 (1.67-1.85)	1114 (749.60)	3070 (2065.60)
635000250	50 x 2.5 (12)	44.5 - 49.0 (1.75-1.93)	1200 (807.40)	3200 (2153.10)
631925515	19 x 2.5 + 5 x 1.5 (c)	29.0 - 34.0 (1.14-1.33)	630 (423.90)	1570 (1056.4)
632525515	25 x 2.5 + 5 x 1.5 (c)	31.0 - 36.0 (1.22-1.42)	813 (547.00)	1684 (1133.10)
630302150	3 x (2 x 1.5) C	24.0 - 27.5 (0.94-1.08)	278 (187.10)	750 (504.60)
630602150	6 x (2 x 1.5) C	28.5 - 30.0 (1.12-1.18)	345 (232.10)	1146 (771.10)
634352415	4 x 35 + 2 x (4 x 1.5)c	33.5-36.5 (1.32-1.43)	1635 (1100.10)	2049 (1378.70)

# TPE ENCODER / RESOLVER CABLE

cRU AWM I/II A/B FT1



## CONSTRUCTION

**CONDUCTORS:** FLEXIBLE STRANDED TINNED COPPER CONDUCTORS

**INSULATION:** THERMOPLASTIC ELASTOMERS (TPE)

**TAPE SHIELD:** ALUMINUM/MYLAR TAPE, FOIL OUT

**BRAID SHIELD:** TINNED COPPER BRAID (INDIVIDUAL PR. AND OVERALL)

**JACKET:** THERMOPLASTIC ELASTOMERS (TPE)

**COLOR:** 1. BLACK – RED, 2. BLACK – WHITE, 3. BLACK – GREEN, 4. BLACK - BLUE

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>FLEXIBLE CONSTRUCTION</li> <li>DURABLE OIL RESISTANT OUTER JACKET</li> <li>FLAME RETARDANT</li> </ul>	<ul style="list-style-type: none"> <li>AWM 20626</li> <li>CRU AWM I/II A/B FT1</li> <li>CE-LVD AND ROHS COMPLIANT (2011/65/CE)</li> </ul>

## TECHNICAL DETAILS

**TEMPERATURE RANGE** -40° / +120° C (DYNAMIC); +80° C UL STYLE

**AV VOLTAGE RAITING** 300 V

**CAPACITANCE** 19 PF/FT NOMINAL

**IMPEDANCE** 75 OHMS NOMINAL

**BEND RADIUS** 6 X OD

## APPLICATION

INDOOR/OUTDOOR, INDUSTRIAL APPLICATIONS, FESTOON SYSTEMS AND POWER TRACK SYSTEMS

PART NUMBER	# OF CORES	CONDUCTOR AWG	CONDUCTOR STRANDING	INSULATION THICKNESS INCHES (MM)	JACKET THICKNESS INCHES (MM)	OD H X W INCHES (MM)	CABLE WT LBS/MFT (KG/KM)	AMPACITY A
28704P2200UL	4	22 (0.34)	19/34	0.017 (0.432)	0.04 (1.02)	0.512 (13.00)	140 (208)	2.1
28704P2000UL	4	20 (0.50)	19/32	0.021 (0.533)	0.04 (1.02)	0.594 (15.09)	184 (274)	3.5
28704P1800UL	4	18 (0.75)	19/30	0.026 (0.660)	0.04 (1.02)	0.685 (17.40)	239 (356)	4.9
28703P2000UL	3	20 (0.50)	19/32	0.542 (13.76)	0.01 (1.02)	0.216 (5.41)	150 (223)	4.0



# TPE ENCODER / RESOLVER CABLE

cRU AWM I/II A/B FT4



## CONSTRUCTION

**CONDUCTORS:** FLEXIBLE STRANDED TINNED COPPER CONDUCTORS

**INSULATION:** CROSS-LINKED POLYETHYLENE (XLPE)

**TAPE SHIELD:** ALUMINUM/MYLAR TAPE, FOIL OUT

**BRAID SHIELD:** TINNED COPPER BRAID (INDIVIDUAL PR. AND OVERALL)

**JACKET:** THERMOPLASTIC ELASTOMERS (TPE)

**COLOR:** 1. BLACK – RED, 2. BLACK – WHITE, 3. BLACK – GREEN, 4. BLACK - BLUE

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>FLEXIBLE CONSTRUCTION</li> <li>DURABLE OIL RESISTANT OUTER JACKET</li> <li>FLAME RETARDANT FT4</li> </ul>	<ul style="list-style-type: none"> <li>UL PLTC 80° 300 V</li> <li>AWM 21270 105° 600 V</li> <li>cRU AWM I/II A/B FT4</li> <li>CE-LVD Compliant (2014/35/EU) and RoHS</li> <li>COMPLIANT (2011/65/EU &amp; EU 2015/863)</li> </ul>

## TECHNICAL DETAILS

**TEMPERATURE RANGE** -40° / + 105° C

**AV VOLTAGE RAITING** 600 V

**BEND RADIUS** 6 X OD

## APPLICATION

INDUSTRIAL APPLICATIONS, FESTOON SYSTEMS AND POWER TRACK SYSTEMS.

PART NUMBER	# OF PAIRS	CONDUCTOR AWG	INSULATION THICKNESS INCHES	JACKET THICKNESS INCHES (MM)	OD H X W INCHES (MM)	CABLE WT LBS/MFT (KG/KM)	CAPACITANCE PF/FT NOMINAL (C-C)	IMPEDANCE OHMS NOMINAL	MAX A
28704P2200F4	4	22	0.032	0.65	0.721	245	15	100	3
28704P2000F4	4	20	0.032	0.65	0.758	268	17	90	5
28704P1800F4	4	18	0.032	0.65	0.785	313	19	80	7
28703P2000F4	3	20	0.032	0.65	0.693	217	17	90	5

# SOOW

**600V CORD -40°C + 90°C UL CSA MSHA  
EXTRA HARD USAGE – HIGH GRADE MECHANICAL SERVICE**



## CONSTRUCTION

**CONDUCTORS:** FLEXIBLE STRANDED BARE COPPER, ASTM B-174 AND UL 62

**INSULATION:** ETHYLENE-PROPYLENE RUBBER (EPR), 90°C COMPOUND CLASS 3, TABLE 8, UL 62

**ASSEMBLY:** INSULATED CONDUCTORS CABLED TOGETHER WITH INTEGRAL FILLER OR RUBBER FILLERS

**SEPARATOR:** TALC FOR 18-10 AWG (PORTABLE & CONTROL CABLE), TALC FOR 8-2 AWG (POWER CABLE)

**JACKET:** BLACK CPE 90°C COMPOUND CLASS 1.4, TABLE 22, UL 62

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• EXCELLENT FLEXIBILITY, RESISTANCE TO OIL, SOLVENTS, OZONE, WEATHER, SUNLIGHT AND WATER</li> <li>• FLAME TEST MEETS VW-1, FT2 AND MSHA</li> <li>• TEMPERATURE RANGE -40°C TO + 90°C</li> <li>• SUITABLE FOR SHALLOW WATER IMMERSION</li> <li>• NEC ARTICLE 700 PERMITTED FOR SPECIFIC APPLICATIONS</li> <li>• NFPA 70 PERMITTED USE IN HAZARDOUS LOCATIONS CLASSES I, II, III DIVISIONS 1 &amp; 2 AS OUTLINED IN ARTICLES 501, 502, 503 SECTION 140.</li> <li>• BEND RADIUS: 5 X OD</li> </ul>	<ul style="list-style-type: none"> <li>• UL</li> <li>• CSA</li> <li>• MSHA</li> </ul>

**SPECIFICATIONS AND STANDARDS:** UL62/CSA-C 22.2 NO 4

## APPLICATION

INDUSTRIAL AND PROCESSING EQUIPMENT, CRANES AND HOISTS, CABLE CHAIN, TRACK SYSTEMS, TOOLS, CONSTRUCTION EQUIPMENT, MOTORS AND ASSOCIATED MACHINERY, GARAGE PORTABLE LIGHT, BATTERY CHARGER AND EQUIPMENT EXPOSED TO OILS, SOLVENTS, FLAME, MOISTURE AND OTHER ELECTRICAL EQUIPMENT.

# PORTABLE AND CONTROL CORD

**COLOR CODE: ICEA S-58-679, METHOD 1, TABLE 1.**

PART NUMBER	# OF CONDUCTOR	CONDUCTOR SIZE	CONDUCTOR STRANDING	INSULATION THICKNESS INCH (MM)	JACKET THICKNESS INCH (MM)	NOMINAL O.D. INCH (MM)	CABLE WT LBS/MFT (KG/KM)	AMPACITY A 30 C° AMBIENT T
80021800	2	18	16 / 30	0.030 (0.76)	0.060 (1.52)	0.34 (8.6)	63	10
80031800	3				0.060 (1.52)	0.36 (9.1)	74	10
80041800	4				0.060 (1.52)	0.39 (9.8)	87	7
80051800	5				0.080 (2.03)	0.46 (11.7)	123	5.6
80061800	6				0.080 (2.03)	0.48 (12.3)	131	5.6
80071800	7				0.080 (2.03)	0.48 (12.3)	134	5.6
80081800	8				0.080 (2.03)	0.52 (13.1)	151	4.9
80101800	10				0.080 (2.03)	0.59 (15.0)	180	4.9
80121800	12				0.080 (2.03)	0.61 (15.4)	202	3.5
80141800	14				0.095 (2.41)	0.66 (16.9)	246	3.5
80161800	16				0.095 (2.41)	0.69 (17.6)	274	3.5
80201800	20				0.095 (2.41)	0.76 (19.3)	333	3.5
80241800	24				0.095 (2.41)	0.83 (21.2)	376	3.2
80301800	30				0.110 (2.79)	0.91 (23.0)	470	3.2
80021600	2				16	26 / 30	0.030 (0.76)	0.060 (1.52)
80031600	3	0.060 (1.52)	0.39 (9.8)	90				13
80041600	4	0.060 (1.52)	0.42 (10.5)	107				10
80051600	5	0.080 (2.03)	0.49 (12.5)	146				8
80061600	6	0.080 (2.03)	0.53 (13.4)	165				8
80071600	7	0.080 (2.03)	0.53 (13.4)	170				8
80081600	8	0.080 (2.03)	0.56 (14.3)	193				7
80091600	9	0.095 (2.41)	0.68 (17.2)	238				7
80101600	10	0.095 (2.41)	0.68 (17.2)	251				7
80121600	12	0.095 (2.41)	0.70 (17.7)	282				5
80141600	14	0.095 (2.41)	0.73 (18.5)	316				5
80161600	16	0.095 (2.41)	0.76 (19.4)	354				5
80201600	20	0.095 (2.41)	0.84 (21.2)	434				5
80241600	24	0.110 (2.79)	0.95 (24.1)	520				4.5
80301600	30	0.110 (2.79)	1.00 (25.4)	615				4.5
80371600	37	0.110 (2.79)	1.07 (27.3)	730				4
80401600	40	0.110 (2.79)	1.18 (29.9)	843				4
80521600	52	0.125 (3.18)	1.28 (32.4)	1016				3.5
80601600	60	0.125 (3.18)	1.35 (34.2)	1154	3.5			
80021400	2	14	41 / 30	0.045 (1.14)	0.080 (2.03)	0.50 (12.6)	137	18
80031400	3				0.080 (2.03)	0.52 (13.3)	161	18
80041400	4				0.080 (2.03)	0.57 (14.4)	192	15
80051400	5				0.095 (2.41)	0.64 (16.4)	251	12
80061400	6				0.095 (2.41)	0.69 (17.6)	277	12
80071400	7				0.095 (2.41)	0.69 (17.6)	285	12
80081400	8				0.095 (2.41)	0.74 (18.9)	324	10.5
80101400	10				0.095 (2.41)	0.86 (21.9)	388	10.5
80121400	12				0.095 (2.41)	0.89 (22.5)	441	7.5
80141400	14				0.095 (2.41)	0.98 (24.8)	563	7.5
80201400	20				0.110 (2.79)	1.11 (28.1)	730	7.5
80241400	24				0.110 (2.79)	1.22 (31.1)	828	6.8
80301400	30				0.125 (3.18)	1.32 (33.6)	1027	6.8
80371400	37				0.125 (3.18)	1.42 (36.2)	1224	6

## PORTABLE AND CONTROL CORD

**COLOR CODE: ICEA S-58-679, METHOD 1, TABLE 1.**

PART NUMBER	# OF CONDUCTOR	CONDUCTOR SIZE	CONDUCTOR STRANDING	INSULATION THICKNESS INCH (MM)	JACKET THICKNESS INCH (MM)	NOMINAL O.D. INCH (MM)	CABLE WT LBS/MFT (KG/KM)	AMPACITY A 30 C° AMBIENT T
80021200	2	12	65/ 30	0.045 (1.14)	0.095 (2.41)	0.57 (14.4)	184	25
80031200	3				0.095 (2.41)	0.59 (15.2)	217	25
80041200	4				0.095 (2.41)	0.64 (16.5)	261	20
80051200	5				0.095 (2.41)	0.70 (17.8)	319	16
80061200	6				0.095 (2.41)	0.74 (18.8)	344	16
80071200	7				0.095 (2.41)	0.74 (18.8)	358	16
80081200	8				0.095 (2.41)	0.80 (20.2)	408	14
80091200	9				0.095 (2.41)	0.92 (23.5)	461	14
80101200	10				0.110 (2.79)	0.95 (24.2)	519	14
80121200	12				0.110 (2.79)	0.98 (24.9)	591	10
80141200	14				0.110 (2.79)	1.03 (26.1)	668	10
80161200	16				0.110 (2.79)	1.08 (27.5)	755	10
80201200	20				0.125 (3.18)	1.22 (31.0)	971	10
80241200	24				0.125 (3.18)	1.35 (34.3)	1106	9
80261200	26				0.125 (3.18)	1.38 (35.0)	1180	9
80301200	30				0.125 (3.18)	1.43 (36.3)	1327	9
80371200	37				0.125 (3.18)	1.53 (39.0)	1588	8
80441200	44				0.125 (3.18)	1.72 (43.6)	1868	7
80021000	2	10	104 / 30	0.045 (1.14)	0.095 (2.41)	0.62 (15.6)	230	30
80031000	3				0.095 (2.41)	0.65 (16.5)	281	30
80041000	4				0.095 (2.41)	0.70 (17.8)	336	25
80051000	5				0.095 (2.41)	0.76 (19.3)	409	20
80061000	6				0.095 (2.41)	0.82 (20.7)	452	20
80071000	7				0.095 (2.41)	0.82 (20.7)	474	20
80081000	8				0.095 (2.41)	0.88 (22.3)	541	17.5
80101000	10				0.110 (2.79)	1.05 (26.8)	686	17.5
80121000	12				0.110 (2.79)	1.09 (27.6)	788	12.5
80161000	16				0.125 (3.18)	1.23 (31.2)	1053	12.5
80201000	20				0.125 (3.18)	1.35 (34.4)	1304	12.5
80241000	24				0.125 (3.18)	1.54 (39.0)	1598	11.3
80301000	30				0.125 (3.18)	1.59 (40.4)	1803	11.3
80401000	40				0.141 (3.58)	1.87 (47.4)	2464	10

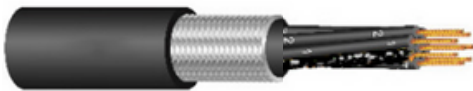
## POWER CABLE

**ICEA S-58-679, METHOD 1,  
TABLE 1; 2/C, 3/C – BLACK, WHITE, GREEN  
4/C, 5/C – BLACK, WHITE, RED, GREEN, ORANGE**

PART NUMBER	# OF CONDUCTOR	CONDUCTOR SIZE	CONDUCTOR STRANDING	INSULATION THICKNESS INCH (MM)	JACKET THICKNESS INCH (MM)	NOMINAL O.D. INCH (MM)	CABLE WT LBS/MFT (KG/KM)	AMPACITY A 30 C° AMBIENT T
80030800UL	3	8	133 / 0.0156	0.060 (1.52)	0.110 (2.79)	0.83 (21.1)	452	40
80040800UL	4				0.125 (3.18)	0.93 (23.5)	577	35
80050800UL	5				0.125 (3.18)	1.00 (25.4)	683	28
80030600UL	3	6	184 / 0.0117	0.060 (1.52)	0.125 (3.18)	0.97 (24.6)	641	55
80040600UL	4				0.140 (3.56)	1.05 (26.7)	785	45
80050600UL	5				0.140 (3.56)	1.18 (30.0)	983	36
80030400UL	3	4	165 / 0.0156	0.060 (1.52)	0.140 (3.56)	1.13 (33.2)	913	70
80040400UL	4				0.155 (3.94)	1.25 (31.8)	1156	60
80050400UL	5				0.155 (3.94)	1.31 (33.2)	1318	48
80030200UL	3	2	262 / 0.0156	0.060 (1.52)	0.155 (3.94)	1.30 (33.1)	1287	95
80040200UL	4				0.170 (4.32)	1.45 (36.8)	1644	80
80050200UL	5				0.170 (4.32)	1.53 (38.8)	1900	64

# SEOOW - SHD

600V FLEXIBLE CORD + 105°C UL



## CONSTRUCTION

**CONDUCTORS:** STRANDS BARE COPPER, CLASS K

**INSULATION:** THERMOPLASTIC ELASTOMER (TPE), BLACK AND WHITE

**BINDER:** CLEAR MYLAR TAPE

**SHIELD:** TINNED COPPER BRAID, 85% MIN. COVERAGE

**JACKET:** THERMOPLASTIC ELASTOMER (TPE), FOOTAGE MARKED

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>SUITABLE FOR USE IN CLASS 1 DIVISION 2 HAZARDOUS LOCATIONS</li> <li>APPROVED FOR SUNLIGHT AND OIL</li> <li>WEATHER RESISTANT &amp; WATER SUBMERSED APPLICATIONS</li> <li>TEMPERATURE + 105°C</li> <li>BEND RADIUS: 5 X OD</li> </ul>	<ul style="list-style-type: none"> <li>UL</li> <li>ROHS COMPLIANT</li> <li>MSHA</li> </ul>

## APPLICATION

INDUSTRIAL AND PROCESSING EQUIPMENT, CRANES AND HOISTS, CABLE CHAIN, TRACK SYSTEMS, TOOLS, CONSTRUCTION EQUIPMENT, MOTORS AND ASSOCIATED MACHINERY, GARAGE PORTABLE LIGHT, BATTERY CHARGER AND EQUIPMENT EXPOSED TO OILS, SOLVENTS, FLAME, MOISTURE AND OTHER ELECTRICAL EQUIPMENT.

PART NUMBER	# OF CONDUCTOR	CONDUCTOR SIZE AWG	INSULATION THICKNESS INCH	JACKET THICKNESS INCH	NOMINAL O.D. INCH	CABLE WT LBS/MFT
X-SH-16-04-SEOOW	4	16	0.032	0.06	0.45	126
X-SH-18-06-SEOOW	6	18	0.032	0.083	0.521	151

# TYPE W

## 602000 V PORTABLE POWER CABLE 90°C UL C(UL) MSHA



### CONSTRUCTION

**CONDUCTORS:** STRANDS BARE COPPER, B-172 AND ICEA S-75-381/NEMA WC70

**INSULATION:** ETHYLENE-PROPYLENE RUBBER (EPR), ICEA S-95-658 SEC.3.21, TABLE 3-6

**SEPARATOR:** TAPE SEPARATOR BETWEEN CONDUCTOR AND INSULATION

**JACKET:** BLACK HEAVY DUTY CPE THERMOSET COMPOUND, ICEA S-75-381/NEMA WC70 SEC 3.21, TABLE 3-4

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• EXCELLENT FLEXIBILITY</li> <li>• WATER RESISTANT AND FLAME RETARDANT</li> <li>• RATED AND FLEXIBLE AT -40°C TO + 90°C</li> <li>• EXCELLENT IMPACT AND ABRASION RESISTANT</li> <li>• OZONE, SUNLIGHT, OIL, GREASE, WEATHER, CHEMICAL RESISTANT</li> <li>• BEND RADIUS: 6 X OD</li> </ul>	<ul style="list-style-type: none"> <li>• UL</li> <li>• C(UL)</li> <li>• MSHA</li> </ul>

### SPECIFICATIONS AND STANDARDS

- UICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70, ASTM B172, ASTM B 33, UL 44

### APPLICATION

PORTABLE POWER SYSTEMS, INDUSTRIAL APPLICATIONS, MINING APPLICATION WHERE BARE COPPER GROUNDING CONDUCTORS ARE NOT REQUIRED.

### TYPE W RHH/RHW-2 - 1 CONDUCTOR - EXTRA FLEXIBLE – INDUSTRIAL GRADE

OPEN REINFORCING BRAID OVER INSULATION

PART NUMBER	CONDUCTOR SIZE AWG-MCM	CONDUCTOR STRANDING	INSULATION THICKNESS INCH (MM)	O.D. INCH (MM)	CABLE WT LBS/MFT (KG/KM)	AMPACITY A 30 C° AMBIENT T.
X-W-8-1-2Kv	8	162	0.060 (1.52)	0.44 (11.1)	131 (195)	80
X-W-6-1-2Kv	6	264	0.060 (1.52)	0.52 (13.9)	193 (287)	105
X-W-4-1-2Kv	4	418	0.060 (1.52)	0.56 (14.3)	255 (379)	140
X-W-2-1-2Kv	2	660	0.060 (1.52)	0.65 (16.5)	365 (543)	190
X-W-1-1-2Kv	1	836	0.080 (2.03)	0.72 (18.4)	454 (675)	220
X-W-1/0-1-2Kv	1/0	1056	0.080 (2.03)	0.75 (19.1)	529 (787)	260
X-W-2/0-1-2Kv	2/0	1320	0.080 (2.03)	0.80 (20.3)	626 (931)	300
X-W-3/0-1-2Kv	3/0	1672	0.080 (2.03)	0.86 (21.9)	755 (1123)	350
X-W-4/0-1-2Kv	4/0	2090	0.080 (2.03)	0.91 (23.1)	965 (1436)	405
X-W-250-1-2Kv	250	2496	0.095 (2.41)	0.98 (25.0)	1064 (1584)	455
X-W-350-1-2Kv	350	3419	0.095 (2.41)	1.11 (28.2)	1409 (2096)	570
X-W-500-1-2Kv	500	4880	0.095 (2.41)	1.28 (35.2)	1913 (2847)	700

## TYPE W - 2 CONDUCTORS - FLEXIBLE - INDUSTRIAL GRADE



### HEAVY DUTY REINFORCED JACKET

PART NUMBER	CONDUCTOR SIZE AWG-MCM	CONDUCTOR STRANDING	INSULATION THICKNESS INCH (MM)	O.D. INCH (MM)	CABLE WT LBS/MFT (KG/KM)	AMPACITY A 30 C° AMBIENT T.
X-W-8-2-2Kv	8	133	0.060 (1.52)	0.80 (20.3)	407 (605)	74
X-W-6-2-2Kv	6	133	0.060 (1.52)	0.92 (23.3)	552 (822)	99
X-W-4-2-2Kv	4	259	0.060 (1.52)	1.03 (26.2)	752 (1119)	130
X-W-2-2-2Kv	2	259	0.060 (1.52)	1.22 (30.9)	1088 (1619)	174

## TYPE W - 3 CONDUCTORS - FLEXIBLE - INDUSTRIAL GRADE

PART NUMBER	CONDUCTOR SIZE AWG-MCM	CONDUCTOR STRANDING	INSULATION THICKNESS INCH (MM)	O.D. INCH (MM)	CABLE WT LBS/MFT (KG/KM)	AMPACITY A 30 C° AMBIENT T.
X-W-8-3-2Kv	8	133	0.060 (1.52)	0.96 (24.3)	565 (841)	74
X-W-6-3-2Kv	6	259	0.060 (1.52)	1.03 (26.2)	698 (1038)	99
X-W-4-3-2Kv	4	259	0.060 (1.52)	1.14 (29.0)	944 (1405)	130
X-W-2-3-2Kv	2	259	0.060 (1.52)	1.29 (32.8)	1306 (1944)	174
X-W-1-3-2Kv	1	259	0.080 (2.03)	1.46 (37.0)	1639 (2439)	202
X-W-1/0-3-2Kv	1/0	266	0.080 (2.03)	1.59 (40.3)	1991 (2963)	234
X-W-2/0-3-2Kv	2/0	342	0.080 (2.03)	1.69 (42.8)	2380 (3541)	271
X-W-3/0-3-2Kv	3/0	418	0.080 (2.03)	1.81 (46.1)	2808 (4179)	313
X-W-4/0-3-2Kv	4/0	532	0.080 (2.03)	1.96 (49.7)	3425 (5097)	361
X-W-250-3-2Kv	250	627	0.095 (2.41)	2.29 (58.2)	4258 (6336)	402
X-W-350-3-2Kv	350	888	0.095 (2.41)	2.57 (65.2)	5650 (8408)	495
X-W-450-3-2Kv	500	1221	0.095 (2.41)	2.90 (73.7)	7445 (11079)	613

## TYPE W - 4 CONDUCTORS - FLEXIBLE - INDUSTRIAL GRADE

PART NUMBER	CONDUCTOR SIZE AWG-MCM	CONDUCTOR STRANDING	INSULATION THICKNESS INCH (MM)	O.D. INCH (MM)	CABLE LBS/MFT (KG/KM)	AMPACITY A 30 C° AMBIENT T.
X-W-8-4-2Kv	8	133	0.060 (1.52)	0.98 (24.9)	656 (976)	65
X-W-6-4-2Kv	6	259	0.060 (1.52)	1.10 (28.0)	908 (1352)	87
X-W-4-4-2Kv	4	259	0.060 (1.52)	1.22 (30.9)	1262 (1878)	114
X-W-2-4-2Kv	2	259	0.060 (1.52)	1.44 (36.6)	1759 (2618)	152
X-W-1-4-2Kv	1	259	0.080 (2.03)	1.59 (40.4)	2322 (3456)	177
X-W-1/0-4-2Kv	1/0	266	0.080 (2.03)	1.70 (43.3)	2721 (4050)	205
X-W-2/0-4-2Kv	2/0	342	0.080 (2.03)	1.85 (47.1)	3293 (4901)	237
X-W-3/0-4-2Kv	3/0	418	0.080 (2.03)	1.96 (49.9)	3849 (5729)	274
X-W-4/0-4-2Kv	4/0	532	0.080 (2.03)	2.16 (54.7)	4765 (7092)	316
X-W-250-4-2Kv	250	627	0.095 (2.41)	2.53 (64.2)	5579 (8303)	352
X-W-350-4-2Kv	350	888	0.095 (2.41)	2.83 (71.8)	7329 (10908)	433
X-W-450-4-2Kv	500	1221	0.095 (2.41)	3.24 (82.2)	9896 (14729)	536



## TYPE W - 5 CONDUCTORS - FLEXIBLE - INDUSTRIAL GRADE

PART NUMBER	CONDUCTOR SIZE	CONDUCTOR STRANDING	INSULATION THICKNESS INCH (MM)	O.D. INCH (MM)	CABLE WT LBS/MFT (KG/KM)	AMPACITY A 30 C° AMBIENT T.
X-W-8-5-2Kv	8 AWG	133	0.060 (1.52)	0.92 (23.3)	776 (1154)	52
X-W-6-5-2Kv	6 AWG	259	0.060 (1.52)	1.03 (26.2)	1024 (1524)	70
X-W-4-5-2Kv	4 AWG	259	0.060 (1.52)	1.20 (30.4)	1432 (2131)	91
X-W-2-5-2Kv	2 AWG	259	0.060 (1.52)	1.37 (34.7)	2051 (3052)	122
X-W-1-5-2Kv	1 AWG	259	0.080 (2.03)	1.56 (39.5)	2665 (3967)	142
X-W-1/0-5-2Kv	1/0 AWG	266	0.080 (2.03)	1.81 (46.1)	3406 (5069)	164
X-W-2/0-5-2Kv	2/0 AWG	342	0.080 (2.03)	1.94 (49.2)	3596 (5351)	190
X-W-3/0-5-2Kv	3/0 AWG	418	0.080 (2.03)	2.23 (56.6)	4728 (7035)	219
X-W-4/0-5-2Kv	4/0 AWG	532	0.080 (2.03)	0.981 (24.9)	5512 (8203)	253

## TYPE W - 6 CONDUCTORS - FLEXIBLE - INDUSTRIAL GRADE

PART NUMBER	CONDUCTOR SIZE	CONDUCTOR STRANDING	INSULATION THICKNESS INCH (MM)	O.D. INCH (MM)	CABLE WT LBS/MFT (KG/KM)	AMPACITY A 30 C° AMBIENT T.
X-W-6-6-2Kv	6 AWG	259	0.060 (1.52)	1.30 (32.9)	1163 (1731)	70

# DLO/RHH/RHW-2/RW90/RW90-TC

## 2000V PORTABLE POWER CABLE 90°C UL CSA MSHA INDUSTRIAL GRADE



### CONSTRUCTION

**NOMINAL VOLTAGE:** RHH/RHW-2 600V AND 200V, RW-90 CSA, 1KV, DLO 2KV

**CONDUCTORS:** FLEXIBLE STRANDED TIN COATED COPPER, B-172, ASTM B33

**INSULATION:** ETHYLENE-PROPYLENE RUBBER (EPR) UL, CSA, ICEA, AAR RP-588 90°C

**JACKET:** BLACK HEAVY DUTY, THERMOSET CPE, ICEA S-95-658 NEMA WC70, AAR RP-586

**SEPARATOR:** TAPE SEPARATOR BETWEEN CONDUCTOR AND INSULATION

**BENDING RADIUS:** FOR STATIC – MINIMUM 4XD, FOR DYNAMIC – MINIMUM 6XD, D = DIAMETER OF CABLE

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• UL LISTED RHH/RHW-2 600V AND 2000V FOR BLACK JACKET</li> <li>• RATED 2KV DLO, 1KV RW90</li> <li>• 90°C DRY AND WET</li> <li>• OZONE, SUNLIGHT, OIL, GREASE, WEATHER, CHEMICAL AND ABRASION RESISTANT JACKET</li> <li>• RATED RW90-TC (TRAY CABLE) FOR SIZES 1/0 AWG AND LARGER</li> <li>• MSHA, VW-1, SUN RES FOR CT USE FOR SIZES 1/0 AWG AND LARGER AND FOR BLACK JACKET</li> <li>• LIMITED SMOKE (LS) ST1 IN ACCORDANCE WITH UL1685</li> <li>• CSA LISTED RW90, RW90-TC (FOR BLACK JACKET) 1KV</li> <li>• BEND RADIUS: 4 X OD (STATIC), 6 X OD (DYNAMIC)</li> </ul>	<ul style="list-style-type: none"> <li>• UL: RHW-2 90C WET AND DRY, VW-1, SUN RES IEE1002 FOR CT USE</li> <li>• C(UL): TYPE RW90 EPR, 1000V, FT1</li> <li>• CSA: RW-90 90C, FT1, FT4 1/0AWG SUN RES, OIL RES TRAY CABLE</li> <li>• MSHA</li> </ul>

### SPECIFICATIONS AND STANDARDS

- UL44, UL1685, CSA C22.2 n.38, n.230
- ICEA S-95-658/NEMA WC70
- IEEE-1202, ASTM B8, B33
- AAR, RP-596

### APPLICATION

DESIGN FOR USES REQUIRING A FLEXIBLE HEAVY DUTY POWER CABLE. FOR PORTABLE OR FIXED INSTALLATIONS. LEADS FOR MOTORS, GENERATORS, BATTERIES, JUMPER CABLES. DEEP WELL SUBMERSIBLE PUMP CABLE. FOR USE IN RENEWABLE ENERGY APPLICATIONS. SHIPYARD AND RAILROAD APPLICATIONS.

PART NUMBER	CONDUCTOR SIZE	CONDUCTOR STRANDING	CONDUCTOR DIAMETER	INSULATION THICKNESS INCH (MM)	JACKET THICKNESS	O.D. INCH (MM)	CABLE WT LBS/MFT (KG/KM)	AMPACITY A 30 C° AMBIENT T.
X-DLO-14	14	19/27	0.074 (1.88)	0.045 (1.14)	0.030 (0.76)	0.193 (4.9)	25 (37)	35
X-DLO-12	12	19/25	0.094 (2.39)	0.045 (1.14)	0.030 (0.76)	0.217 (5.5)	46 (68)	40
X-DLO-10	10	27/24	0.128 (3.25)	0.045 (1.14)	0.030 (0.76)	0.248 (6.3)	67 (100)	55
X-DLO-8	8	37/24	0.147 (3.73)	0.060 (1.52)	0.030 (0.76)	0.323 (8.2)	95 (141)	80
X-DLO-6	6	61/24	0.207 (5.26)	0.060 (1.52)	0.030 (0.76)	0.362 (9.2)	134 (199)	105
X-DLO-4	4	105/24	0.264 (6.71)	0.060 (1.52)	0.030 (0.76)	0.413 (10.5)	192 (286)	140
X-DLO-2	2	150/24	0.314 (7.98)	0.060 (1.52)	0.030 (0.76)	0.489 (12.4)	248 (369)	190
X-DLO-1	1	225/24	0.390 (9.91)	0.080 (2.03)	0.045 (1.14)	0.583 (14.8)	428 (637)	220
X-DLO-1/O	1/O	275/24	0.420 (10.67)	0.080 (2.03)	0.045 (1.14)	0.642 (16.3)	480 (714)	260
X-DLO-2/O	2/O	325/24	0.460 (11.68)	0.080 (2.03)	0.045 (1.14)	0.681 (17.3)	558 (830)	300
X-DLO-3/O	3/O	450/24	0.555 (14.10)	0.080 (2.03)	0.045 (1.14)	0.781 (19.8)	742 (1104)	350
X-DLO-4/O	4/O	550/24	0.587 (14.90)	0.080 (2.03)	0.045 (1.14)	0.815 (20.7)	872 (1298)	405
X-DLO-262	262	650/24	0.660 (16.77)	0.095 (2.41)	0.065 (1.65)	0.921 (23.4)	1068 (1589)	471
X-DLO-313	313	775/24	0.725 (18.41)	0.095 (2.41)	0.065 (1.65)	0.984 (25.1)	1258 (1872)	511
X-DLO-373	373	925/24	0.787 (19.99)	0.095 (2.41)	0.065 (1.65)	1.055 (26.8)	1462 (2176)	590
X-DLO-444	444	1100/24	0.870 (22.10)	0.095 (2.41)	0.065 (1.65)	1.138 (28.9)	1726 (2568)	656
X-DLO-535	535	1325/24	0.950 (24.13)	0.110 (2.79)	0.065 (1.65)	1.244 (31.6)	2018 (3046)	731
X-DLO-646	646	1600/24	1.040 (26.42)	0.110 (2.79)	0.065 (1.65)	1.355 (33.9)	2416 (3595)	815
X-DLO-777	777	1925/24	1.130 (28.70)	0.110 (2.79)	0.065 (1.65)	1.433 (36.4)	2881 (4287)	905
X-DLO-929	929	2300/24	1.208 (30.69)	0.110 (2.79)	0.065 (1.65)	1.516 (38.5)	3455 (5142)	1005
X-DLO-1111	1111	2750/24	1.370 (34.80)	0.125 (3.17)	0.095 (2.41)	1.791 (45.5)	4077 (6067)	1115

# TYPE G

## 2000 V Portable Power Cable 90°C UL C(UL) MSHA



### CONSTRUCTION

**CONDUCTORS:** FLEXIBLE STRANDED TINNED COPPER, ASTM B-172 CLASS I AND ICEA S-75-381/NEMA WC58

**INSULATION:** ETHYLENE-PROPYLENE RUBBER (EPR)

**GROUNDING CONDUCTORS:** INSULATION COLOR GREEN

**JACKET:** BLACK HEAVY DUTY CPE THERMOSET COMPOUND

**SEPARATOR:** SINGLE FACED RUBBER FILLED BINDER TAPE APPLIED OVERALL

**COLOR CODING:** BLACK, WHITE, RED, ORANGE

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>EXCELLENT FLEXIBILITY</li> <li>OZONE, SUN, WEATHER AND FLAME RESISTANT</li> <li>RATED AND FLEXIBLE AT -40°C TO + 90°C</li> <li>EXCELLENT IMPACT AND ABRASION RESISTANT</li> <li>OIL AND HEAT RESISTANT</li> <li>BEND RADIUS: 6 X OD</li> </ul>	<ul style="list-style-type: none"> <li>UL: OIL RESISTANT, OIL RESISTANT INNERS, SUNLIGHT RESISTANT 90°C WET OR DRY</li> <li>C(UL): FT1, FT5, -40°C + 90°C</li> <li>MSHA</li> </ul>

### SPECIFICATIONS AND STANDARDS

- ICEA S-75-381/NEMA WC58, ICEA S-95-658/NEMA WC70, ASTM B172, ASTM B 33, UL 44, UL 1581

### APPLICATION

USE ON AC OFF TRACK EQUIPMENT SUCH AS MINERS, SHUTTLE CARS, CUTTING MACHINES, LOADING MACHINE, DRILLS, CONVEYORS, AND PUMPS. POWER TO OPEN PIT STRIP AND DEEP MINES.

Part Number	Conductor Size AWG/MCM	Power Conductor Stranding	Ground Conductor Size	Insulation Thickness Inch (mm)	Nominal O.D. Inch (mm)	Cable Wt lbs/Mft (kg/km)	Ampacity A
X-G-8-4-2KV	8	133 7x19	12	0.06 (1.52)	0.99 (25.1)	748 (1113)	52
X-G-6-4-2KV	6	259 7x37	12	0.06 (1.52)	1.10 (27.9)	910 (1354)	69
X-G-4-4-2KV	4	259 7x37	10	0.06 (1.52)	1.27 (32.3)	1378 (2050)	91
X-G-2-4-2KV	2	259 7x37	9	0.06 (1.52)	1.48 (37.6)	1914 (2848)	121
X-G-1-4-2KV	1	259 7x37	8	0.08 (2.03)	1.68 (42.7)	2311 (3439)	141
X-G-1/0-4-2KV	1/0	266 19x14	7	0.08 (2.03)	1.79 (45.5)	2810 (4181)	164
X-G-2/0-4-2KV	2/0	343 19x18	6	0.08 (2.03)	1.93 (49.0)	3253 (4842)	189
X-G-3/0-4-2KV	3/0	259 37x7	5	0.08 (2.03)	2.07 (52.6)	4099 (6100)	219
X-G-4/0-4-2KV	4/0	532 19x28	4	0.08 (2.03)	2.26 (57.4)	4925 (7329)	252
X-G-250-4-2KV	250	627 19x33	3	0.095 (2.413)	2.66 (67.6)	6060 (9018)	281
X-G-350-4-2KV	350	888 37x24	1	0.095 (2.413)	2.98 (75.7)	8126 (12093)	346
X-G-500-4-2KV	500	1221 37x33	1/0	0.095 (2.413)	3.40 (86.4)	10758 (16010)	428

# G-GC

## 2000 V Portable Power Cable 90°C UL C(UL) MSHA



### CONSTRUCTION

**CONDUCTORS:** FLEXIBLE STRANDED TINNED COPPER, CLASS I UL44 AND ASTM B 33

**INSULATION:** ETHYLENE-PROPYLENE RUBBER (EPR)

**GROUNDING CONDUCTORS:** TINNED COPPER, INSULATION COLOR GREEN

**COLOR CODING:** BLACK, WHITE, RED

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• EXCELLENT FLEXIBILITY</li> <li>• OZONE, SUN, WEATHER AND FLAME RESISTANT</li> <li>• RATED AND FLEXIBLE AT -40°C TO + 90°C</li> <li>• EXCELLENT IMPACT AND ABRASION RESISTANT</li> <li>• OIL AND HEAT RESISTANT</li> <li>• BEND RADIUS: 6 X OD</li> </ul>	<ul style="list-style-type: none"> <li>• UL: OIL RESISTANT, OIL RESISTANT INNERS, SUNLIGHT RESISTANT 90°C WET OR DRY</li> <li>• C(UL): FT1, FT5, -40°C + 90°C</li> <li>• MSHA</li> </ul>

### SPECIFICATIONS AND STANDARDS

- ASTM B 33, UL 44, UL 1581

### APPLICATION

FOR USE ON MINING EQUIPMENT, SHUTTLE CARS, CUTTING MACHINES, LOADING MACHINES, DRILLS, CONVEYORS, AND PUMPS. FOR APPLICATIONS REQUIRING A GROUND CHECK CONDUCTOR FOR ADDED SAFETY.

### MINING GRADE

**JACKET:** BLACK EXTRA HEAVY DUTY INTEGRAL-FILLED CPE THERMOSET COMPOUND, ICEA S-75-381, SEC 3.21 TABLE3-3 (OTHER COLOR AVAILABLE)

**SEPARATOR:** TAPE SEPARATOR BETWEEN THE CONDUCTOR AND INSULATION

PART NUMBER	CONDUCTOR SIZE AWG-MCM	CONDUCTOR STRANDING	SIZE GROUND (GROUND CHECK) AWG	INSULATION THICKNESS INCH (MM)	JACKET THICKNESS INCH (MM)	OD INCH (MM)	CABLE WT LBS/MFT (KG/KM)	AMPACITY A 30 C° AMBIENT T.
X-GGCM-2-03	2	259 7x37	7 (10)	0.060 (1.52)	0.165 (4.19)	1.34 (34.0)	1461 (2176)	152
X-GGCM-1-03	1	259 7x37	6 (8)	0.080 (2.03)	0.170 (4.31)	1.51 (38.4)	1861 (2772)	177
X-GGCM-1/O-03	1/O	266 19x14	5 (8)	0.080 (2.03)	0.170 (4.31)	1.65 (41.9)	2256 (3360)	205
X-GGCM-2/O-03	2/O	342 19x18	4 (8)	0.080 (2.03)	0.190 (4.83)	1.75 (44.5)	2695 (4014)	237
X-GGCM-4/O-03	4/O	532 19x28	2 (8)	0.080 (2.03)	0.205 (5.21)	2.04 (51.8)	3889 (5791)	316
X-GGCM-350-03	350	888 37x24	1/O (8)	0.095 (2.41)	0.280 (7.11)	2.68 (68.1)	6482 (9652)	433

## INDUSTRIAL GRADE

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**JACKET:** BLACK HEAVY DUTY INTEGRAL-FILLED CPE THERMOSET COMPOUND,  
UL 1581 (OTHER COLORS AVAILABLE)

**SEPARATOR:** SINGLE FACED RUBBER FILLED BINDER TAPE APPLIED OVERALL

PART NUMBER	CONDUCTOR SIZE AWG-MCM	CONDUCTOR STRANDING	SIZE GROUND (GROUND CHECK) AWG	INSULATION THICKNESS INCH	JACKET THICKNESS INCH	OD INCH (MM)	CABLE WT LBS/MFT (KG/KM)	AMPACITY A 30 C° AMBIENT T.
X-GGC-8-03	8	133 7x19	10 (10)	0.060 (1.52)	0.141 (3.58)	0.99 (25.1)	661 (983)	65
X-GGC-6-03	6	133 7x19	10 (10)	0.060 (1.52)	0.141 (3.58)	1.05 (26.6)	781 (1162)	87
X-GGC-4-03	4	259 7x37	8 (10)	0.060 (1.52)	0.141 (3.58)	1.12 (28.4)	1013 (1507)	114
X-GGC-2-03	2	260 7x37	7 (10)	0.060 (1.52)	0.141 (3.58)	1.29 (32.8)	1413 (2103)	152
X-GGC-1-03	1	261 7x37	6 (8)	0.080 (2.03)	0.141 (3.58)	1.41 (35.8)	1716 (2554)	177
X-GGC-1/O-03	1/O	266 19x14	5 (8)	0.080 (2.03)	0.156 (3.96)	1.54 (39)	2096 (3119)	205
X-GGC-2/O-03	2/O	342 19x18	4 (8)	0.080 (2.03)	0.156 (3.96)	1.60 ( 40.6)	2466 (3670)	237
X-GGC-3/O-03	3/O	418 19x22	2 (8)	0.080 (2.03)	0.156 (3.96)	1.74 (44.3)	2982 (4437)	274
X-GGC-4/O-03	4/O	532 19x28	2 (8)	0.080 (2.03)	0.172 (4.36)	1.88 (47.7)	3627 (5397)	316
X-GGC-250-03	250	627 19x33	2 (8)	0.095 (2.41)	0.240 (6.10)	2.26 (57.3)	4568 (6798)	352
X-GGC-350-03	350	888 37x24	1/O (8)	0.095 (2.41)	0.240 (6.10)	2.48 (63.1)	6003 (8933)	433
X-GGC-500-03	500	1221 37x33	2/O (8)	0.095 (2.41)	0.270 (6.86)	2.87 (72.8)	8131 (12099)	536

# SHD-GC

## Portable Power Cable Extra Heavy Duty EPR / NEO 90°C MSHA MINING GRADE



### CONSTRUCTION

**CONDUCTORS:** FLEXIBLE STRANDED TINNED COPPER, ASTM B 172 AND ICEA S-75-381, TABLE 3-22

**INSULATION:** ETHYLENE-PROPYLENE RUBBER (EPR) ICEA S-75 381, TABLE 3-22

**JACKET:** BLACK EXTRA HEAVY DUTY, HIGH TORSION-RESISTANT, INTEGRAL-FILLED, REINFORCED NEOPRENE THERMOSET JACKET, S-75-381 TAB. 3-3, 3-22, SEC. 3.21

**GROUND CONDUCTOR:** TINNED COPPER ICEA S-75-381 TAB. 3-25

**GROUNDING CONDUCTOR:** YELLOW POLYPROPYLENE-INSULATED TINNED COPPER

**SEPARATOR:** POLYESTER TAPE BETWEEN CONDUCTOR AND INSULATION ICEA S-75-381

**COLOR CODE:** POLYAMIDE BRAID COLOR CODE - BLACK, WHITE, RED

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• EXCELLENT FLEXIBILITY</li> <li>• HIGHLY OZONE, SUN, WEATHER, WATER AND FLAME RESISTANT</li> <li>• RATED AND FLEXIBLE AT -40°C</li> <li>• EXCELLENT IMPACT AND ABRASION RESISTANT</li> <li>• OIL AND HEAT RESISTANT</li> <li>• MAXIMUM CONTINUOUS CONDUCTOR TEMPERATURE 90°C</li> </ul>	<ul style="list-style-type: none"> <li>• MSHA</li> </ul>

### SPECIFICATIONS AND STANDARDS

- ICEA S-75/NEMA WC58, ASTM B172, and B33

### APPLICATION

FOR USE AS TRAILING MINING CABLES. USE ON AC OFF TRACK EQUIPMENT SUCH AS LONGWALL & CONTINUOUS MINERS, LOADERS, BLAST HOLE DRILLERS, CONVEYORS, PUMPS AND MOBILE EQUIPMENT REQUIRING GROUNDING CONDUCTORS AND GROUND CHECK AND METALLIC SHIELDING OVERALL. FOR USE IN APPLICATIONS WHERE GROUND CHECK CONDUCTOR IS REQUIRED FOR ADDED SAFETY.

## 2000 V

**INSULATION SHIELD:** NON-CONDUCTOR BEDDING TAPE AND COMPOSITE TINNED COPPER/POLYAMIDE BRAID 60% MINIMUM COVERAGE  
**SEPARATOR:** NYLON OPEN BRAID APPLIED OVERALL  
**BEND RADIUS:** 6 X OD

PART NUMBER	CONDUCTOR SIZE	CONDUCTOR STRANDING	GROUND CHECK CONDUCTOR	GROUNDING CONDUCTOR SIZE	INSULATION THICKNESS INCH (MM)	JACKET THICKNESS	O.D. INCH (MM)	CABLE WT LBS/MFT (KG/KM)
X-SHDGC-2KV-12-03	12	49 7x7	10	12 (49 7x7)	0.07 (1.778)	0.125 (3.175)	0.92 (23.4)	557 (829)
X-SHDGC-2KV-10-03	10	49 7x7	10	12 (49 7x7)	0.07 (1.778)	0.125 (3.175)	0.95 (24.1)	623 (927)
X-SHDGC-2KV-8-03	8	133 7x19	10	10 (49 7x7)	0.07 (1.778)	0.155 (3.937)	1.13 (28.7)	818 (1217)
X-SHDGC-2KV-6-03	6	133 7x19	8	10 (49 7x7)	0.07 (1.778)	0.155 (3.937)	1.26 (32.0)	1076 (1601)
X-SHDGC-2KV-4-03	4	259 7x37	8	8 (133 7x19)	0.07 (1.778)	0.155 (3.937)	1.36 (34.5)	1308 (1947)
X-SHDGC-2KV-2-03	2	259 7x37	8	6 (133 7x19)	0.07 (1.778)	0.17 (4.318)	1.55 (39.4)	1874 (2789)
X-SHDGC-2KV-1/O-03	1/O	266 19x14	8	4 (259 7x37)	0.08 (2.032)	0.19 (4.826)	1.81 (46.0)	2694 (4009)
X-SHDGC-2KV-2/O-03	2/O	342 19x18	8	3 (259 7x37)	0.08 (2.032)	0.205 (5.207)	1.94 (49.3)	3301 (4913)
X-SHDGC-2KV-4/O-03	4/O	532 19x28	8	1 (259 7x37)	0.08 (2.032)	0.220 (5.588)	2.24 (56.9)	4701 (6996)

## ELECTRICAL AND MECHANICAL PARAMETERS

CONDUCTOR SIZE POWER (GROUNDING)	POWER CONDUCTOR RESISTANCE AT 25 C°	GROUNDING CONDUCTOR RESISTANCE AT 25 C°	GROUND CHECK CONDUCTOR RESISTANCE AT 25 C°	INDUCTANCE PER UNIT LENGTH	OPERATING CAPACITANCE PER UNIT LENGTH	PERMISSIBLE SHORT-CIRCUIT (1S)	AMPACITY 40 C°	MAX. PERMISSIBLE TENSILE FORCE
AWG or MCM	$\Omega/1000$ Ft	$\Omega/1000$ Ft	$\Omega/1000$ Ft	mH/1000Ft	$\mu$ F/1000 Ft	kA	A	N
6 (10)	0.436	1.109	0.679	0.118	0.09	1.90	93	600
4 (8)	0.274	0.697	0.679	0.107	0.11	3.03	122	950
2 (6)	0.172	0.436	0.679	0.101	0.13	4.80	159	1500
1/O (4)	0.109	0.274	0.679	0.097	0.14	7.65	211	2400
2/O (3)	0.0868	0.227	0.679	0.092	0.16	9.64	243	3000
4/O (1)	0.0546	0.137	0.679	0.088	0.19	15.30	321	4800



## 5000 V

**INSULATION SHIELD:** NON-CONDUCTOR BEDDING TAPE AND COMPOSITE TINNED COPPER/POLYAMIDE BRAID 60 % MINIMUM COVERAGE

**SEPARATOR:** SINGLE FACED RUBBER-FILLED BINDER TAPE APPLIED OVER CORE

**BEND RADIUS:** 8 X OD

PART NUMBER	CONDUCTOR SIZE	CONDUCTOR STRANDING	GROUND CHECK CONDUCTOR	GROUNDING CONDUCTOR SIZE	INSULATION THICKNESS INCH (MM)	JACKET THICKNESS	O.D. INCH (MM)	CABLE WT LBS/MFT (KG/KM)
X-SHDGC-5KV-4-03	4	259 7X37	8	8 (133 7X19)	0.110 (2.794)	0.185 (4.699)	1.68 (42.7)	1769 (2633)
X-SHDGC-5KV-2-03	2	259 7X37	8	6 (133 7X19)	0.110 (2.794)	0.205 (5.207)	1.87 (47.5)	2370 (3527)
X-SHDGC-5KV-1-03	1	259 7X37	8	5 (133 7X19)	0.110 (2.794)	0.205 (5.207)	1.95 (49.5)	2660 (3959)
X-SHDGC-5KV-1/O-03	1/O	266 19X14	8	4 (259 7X37)	0.110 (2.794)	0.220 (5.588)	2.08 (52.8)	3200 (4762)
X-SHDGC-5KV-2/O-03	2/O	342 19X18	8	3 (259 7X37)	0.110 (2.794)	0.220 (5.588)	2.20 (55.9)	3615 (5380)
X-SHDGC-5KV-4/O-03	4/O	532 19X18	8	1 (259 7X37)	0.110 (2.794)	0.235 (5.969)	2.50 (63.5)	5059 (7529)
X-SHDGC-5KV-350-03	350	888 37X24	6	2/O (342 19X18)	0.120 (3.048)	0.265 (6.731)	2.95 (74.9)	7700 (11458)
X-SHDGC-5KV-500-03	500	1221 37X33	6	4/O (523 19X28)	0.120 (3.048)	0.280 (7.112)	3.31 (84.1)	10200 (15178)

## ELECTRICAL AND MECHANICAL PARAMETERS

CONDUCTOR SIZE POWER (GROUNDING)	POWER CONDUCTOR RESISTANCE AT 25 C°	GROUNDING CONDUCTOR RESISTANCE AT 25 C°	GROUND CHECK CONDUCTOR RESISTANCE AT 25 C°	INDUCTANCE PER UNIT LENGTH	OPERATING CAPACITANCE PER UNIT LENGTH	PERMISSIBLE SHORT-CIRCUIT (1S)	AMPACITY 40 C°	MAX. PERMISSIBLE TENSILE FORCE
AWG or MCM	$\Omega/1000$ Ft	$\Omega/1000$ Ft	$\Omega/1000$ Ft	mH/1000Ft	$\mu$ F/1000 Ft	kA	A	N
4 (8)	0.274	0.697	0.679	0.107	0.11	3.03	122	950
2 (6)	0.172	0.436	0.679	0.101	0.13	4.80	159	1500
1 (5)	0.137	0.349	0.679	0.100	0.13	6.06	184	1900
1/O (4)	0.109	0.274	0.679	0.097	0.14	7.65	211	2400
2/O (3)	0.0868	0.227	0.679	0.092	0.16	9.64	243	3000
4/O (1)	0.0546	0.137	0.679	0.088	0.19	15.30	321	4800
350 (2/O)	0.0333	0.0868	0.436	0.081	0.24	25.31	453	7900
500 (4/O)	0.0233	0.0546	0.436	0.078	0.28	36.18	536	11400

## 8000 V/ 15000 V

**INSULATION SHIELD:** NON-CONDUCTOR BEDDING TAPE AND COMPOSITE TINNED COPPER/POLYAMIDE BRAID 60 % MINIMUM COVERAGE

**SEPARATOR:** SINGLE FACED RUBBER-FILLED BINDER TAPE APPLIED OVER CORE

**BEND RADIUS:** 8 X OD

PART NUMBER	CONDUCTOR SIZE	CONDUCTOR STRANDING	GROUND CHECK CONDUCTOR	GROUNDING CONDUCTOR SIZE	INSULATION THICKNESS INCH (MM)	JACKET THICKNESS	O.D. INCH (MM)	CABLE WT LBS/MFT (KG/KM)
X-SHDGC-8KV-1/O-03	1/O	266 19X14	8	4 (259 7X37)	0.15 (3.81)	0.220 (5.588)	2.23 (58.9)	3530 (5112)
X-SHDGC-8KV-1/O-03	2/O	342 19X18	8	3 (259 7X37)	0.15 (3.81)	0.235 (5.969)	2.46 (62.5)	47160 (6191)
X-SHDGC-8KV-4/O-03	4/O	532 19X28	8	1 (259 7X37)	0.15 (3.81)	0.250 (6.350)	2.45 (69.9)	5590 (8319)
X-SHDGC-15KV-2-03	2	259 7X37	8	6 (259 7X19)	0.21 (5.334)	0.235 (5.969)	2.41 (61.2)	3505 (5216)
X-SHDGC-15KV-1/O-03	1/O	266 19X14	8	4 (259 7X37)	0.21 (5.334)	0.250 (6.350)	2.64 (67.1)	4614 (6867)
X-SHDGC-15KV-2/O-03	2/O	342 19X18	8	3 (259 7X37)	0.21 (5.334)	0.250 (6.350)	2.73 (69.3)	4895 (7285)
X-SHDGC-15KV-4/O-03	4/O	532 19X28	8	1 (259 7X37)	0.21 (5.334)	0.265 (6.731)	3.05 (77.5)	6821 (10151)

## ELECTRICAL AND MECHANICAL PARAMETERS

CONDUCTOR SIZE POWER (GROUNDING)	POWER CONDUCTOR RESISTANCE AT 25 C°	GROUNDING CONDUCTOR RESISTANCE AT 25 C°	GROUND CHECK CONDUCTOR RESISTANCE AT 25 C°	INDUCTANCE PER UNIT LENGTH	OPERATING CAPACITANCE PER UNIT LENGTH	PERMISSIBLE SHORT-CIRCUIT (1S)	AMPACITY 40 C°	MAX. PERMISSIBLE TENSILE FORCE
AWG or MCM	$\Omega/1000$ Ft	$\Omega/1000$ Ft	$\Omega/1000$ Ft	mH/1000Ft	$\mu$ F/1000 Ft	kA	A	N
2 (6)	0.172	0.436	0.679	0.122	0.09	4.80	159	1500
1/O (4)	0.109	0.274	0.679	0.113	0.10	7.65	211	2400
2/O (3)	0.0868	0.227	0.679	0.107	0.11	9.64	243	3000
4/O (1)	0.0546	0.137	0.679	0.101	0.13	15.30	321	4800

# THHN / THWN OR MTW 600V



## CONSTRUCTION

**CONDUCTORS:** ANNEALED BARE SOLID (14-10 AWG), ANNEALED BARE STRANDED CLASS C (14-2 AWG), COMPRESSED STRANDING CLASS B (1 AWG - 1000 MCM) COPPER CONDUCTOR

**INSULATION:** PVC

**JACKET:** NYLON

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• GOOD RESISTANCE TO MOISTURE</li> <li>• RATED FOR INDOOR AND OUTDOOR USE, UV, SUNLIGHT AND CHEMICAL RESISTANT</li> <li>• DURABLE OIL RESISTANT OUTER JACKET</li> <li>• FLAME RETARDANT</li> <li>• (UL) VW-1</li> <li>• WIDE OPERATIONAL TEMPERATURE RANGE (-80° TO 120° C)</li> <li>• VERY LOW TEMPERATURE FLEXIBILITY</li> <li>• CABLE PASSES -50° C COLD IMPACT TEST</li> </ul>	<ul style="list-style-type: none"> <li>• UL-83</li> <li>• RoHS COMPLIANT</li> <li>• CSA FESTOON 600V 105° C</li> <li>• CESMEC E-022-01-5505</li> </ul>

## TECHNICAL DETAILS

**TEMPERATURE RANGE:** 90° (DRY LOCATION), 75° C (WET OR OIL LOCATION)

**AV VOLTAGE RAITING:** 600 V

## APPLICATION

GENERAL USE IN COMMERCIAL AND INDUSTRIAL APPLICATIONS, AND INSTALLATIONS WHERE RESISTANCE AGAINST OILS AND GASOLINE IS REQUIRED. MAY BE USE FOR POWER AND CONTROL CIRCUITS IN RECOGNIZED RACEWAYS, IN WET OR DRY LOCATIONS, AND IN PRESENCE OF GASES, GASOLINE, AND CHEMICALS. ALSO SUITABLE AS MACHINE TOOL AND SWITCHBOARD WIRING.

SIZE AWG / MCM	NUMBER OF STRANDS	CONDUCTOR AREA KCMIL	CONDUCTOR DIAMETER MILS	INSULATION THICKNESS INCH	JACKET THICKNESS INCH	OD INCH	CABLE WT LBS/MFT
14	1 Solid	4.1	0.06	15	5	0.1	16
12	1 Solid	6.5	0.08	15	5	0.12	23
10	1 Solid	10.3	0.10	20	5	0.15	37
14	19	4.1	0.07	15	5	0.12	17
12	19	6.5	0.09	15	5	0.14	26
10	19	10.3	0.11	20	5	0.17	40
8	19	16.5	0.15	30	5	0.23	65
6	19	26.3	0.18	30	6	0.26	99
4	19	41.7	0.23	40	6	0.34	157
3	19	52.6	0.26	40	7	0.36	197
2	19	66.3	0.29	40	7	0.39	241
1	19	83.7	0.32	50	7	0.45	306
1/0	19	106	0.37	50	8	0.5	380
2/0	19	133	0.41	50	8	0.54	472
3/0	19	168	0.47	50	8	0.59	587
4/0	19	211	0.52	50	8	0.65	729
250	37		0.57	60	9	0.72	870
300	37		0.62	60	9	0.78	1033
350	37		0.67	60	9	0.83	1196
400	37		0.72	60	9	0.87	1359
500	37		0.80	60	9	0.96	1685
600	61		0.88	70	10	1.06	2023
750	61		0.98	70	10	1.15	2454
1000	61		1.14	70	10	1.27	3347

## Cat.5e, Cat.6, Cat.6A, Cat.7, Cat.7A UL/CSA

INDUSTRIAL ETHERNET CABLE FOR CONTINUOUS FLEX



### CONSTRUCTION

**CONDUCTORS:** BARE COPPER STRANDED, 7- OR 19 WIRED

**INSULATION:** POLYOLEFIN

**JACKET:** PUR

**SHEILDING:** OVERALL COPPER BRAID TINNED OVER ALU-LAMINATED POLYESTER FOIL

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>OIL RESISTANT JACKET</li> <li>LOW ADHESION</li> <li>UV-RESISTANT</li> <li>FLAME RETARDANT</li> <li>4 PAIRS: 10/100/1000MBIT/S (CAT.5E,6) &amp; 10GBIT/S (CAT.6A,7,7A) FOR INDUSTRIAL ETHERNET</li> <li>MAX. CABLE LENGTHS AT ABOVE STATED TRANSMISSION RATE: 85M</li> </ul>	<ul style="list-style-type: none"> <li>cUL</li> <li>UL</li> <li>RoHS</li> <li>CONFORM TO PROFINET STANDARD</li> </ul>

### TECHNICAL DETAILS

**TEMPERATURE RANGE:** -40° C up to +80 (static), -30° C up to +70 (DYNAMIC)

**VOLTAGE RAITING:** 125 V

**BEND RADIUS:** 7, 5xd < 3mVW | 15x d > 3mVW

**INSULATION RESISTANCE:** min 20 MOhm/km at 20°C

### APPLICATION

FOR FLEXIBLE APPLICATIONS LIKE FESTOON SYSTEM, REELS, CABLE TRACKS, MOVING MACHINE PARTS, AND HARSH ENVIRONMENT.

## PU-EF

**SINGLE CORE FOR USE IN DRAG CHAINS, UL/ CSA**



### CONSTRUCTION

**CONDUCTORS:** BARE COPPER FINE STRANDED, CLASS 6

**INSULATION:** THERMOPLASTIC ELASTOMERS (TPE)

**OUTER SHEATH:** PUR

**OUTER SHEATH COLOR:** BLACK OR GREEN YELLOW

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• HALOGEN-FREE DIN EN 50267/IEC 60754</li> <li>• FLAME RETARDANT VDE 0482-332-1-2/IEC 60332-1</li> <li>• OIL RESISTANT EN 60811-2-1</li> <li>• CHEMICAL RESISTANT</li> </ul>	<ul style="list-style-type: none"> <li>• UL</li> <li>• CSA</li> <li>• VDE</li> </ul>

### TECHNICAL DETAILS

**TEMPERATURE RANGE:** -50°C UP TO 90°C (STATIC), -40°C UP TO 90°C (DYNAMIC)

**VOLTAGE RAITING:** 600/1000 V

**BEND RADIUS:** 4 X OD (STATIC), 7.5 X OD (DYNAMIC)

### APPLICATION

FLEXIBLE CONTROL CABLE FOR APPLICATIONS REQUIRING CONSTANT MOTION IN HEAVY DUTY CONDITIONS.

PART NUMBER	CROSS SECTION MM2 (AWG/MCM)	OD MM (INCH)	CU WEIGHT KG/100M (LBS/MFT)	CU WEIGHT KG/100M (LBS/MFT)
X-PU-EF-6B	1x6 (10)	7.10 (0.28)	5.80 (39)	8.80 (59)
X-PU-EF-6G	1x6 (10)	7.10 (0.28)	5.80 (39)	8.80 (59)
X-PU-EF-10B	1x10 (8)	8.00 (0.31)	9.60 (65)	13.50 (91)
X-PU-EF-10G	1x10 (8)	8.00 (0.31)	9.60 (65)	13.50 (91)
X-PU-EF-16B	1x16 (6)	9.40 (0.37)	15.40 (104)	20.50 (138)
X-PU-EF-16G	1x16 (6)	9.40 (0.37)	15.40 (104)	20.50 (138)
X-PU-EF-25B	1x25 (4)	10.90 (0.43)	24.00 (161)	29.00 (195)
X-PU-EF-25G	1x25 (4)	10.90 (0.43)	24.00 (161)	29.00 (195)
X-PU-EF-35B	1x35 (2)	13.20 (0.52)	33.60 (226)	41.10 (277)
X-PU-EF-35G	1x35 (2)	13.20 (0.52)	33.60 (226)	41.10 (277)
X-PU-EF-50B	1x50 (1-1/0)	14.20 (0.56)	48.00 (323)	55.40 (373)
X-PU-EF-50G	1x50 (1-1/0)	14.20 (0.56)	48.00 (323)	55.40 (373)
X-PU-EF-70B	1x70 (2/0)	16.50 (0.65)	67.20 (452)	77.30 (520)
X-PU-EF-70G	1x70 (2/0)	16.50 (0.65)	67.20 (452)	77.30 (520)
X-PU-EF-95B	1x95 (3/0)	18.40 (0.72)	91.20 (614)	106.60 (717)
X-PU-EF-95G	1x95 (3/0)	18.40 (0.72)	91.20 (614)	106.60 (717)
X-PU-EF-120B	1x120 (4/0)	20.50 (0.81)	115.20 (775)	130.50 (878)
X-PU-EF-120G	1x120 (4/0)	20.50 (0.81)	115.20 (775)	130.50 (878)
X-PU-EF-150B	1x150 (300)	22.50 (0.88)	144.00 (969)	161.60 (1087)
X-PU-EF-150G	1x150 (300)	22.50 (0.88)	144.00 (969)	161.60 (1087)
X-PU-EF-185B	1x185 (350)	26.10 (1.03)	177.00 (1191)	202.50 (1362)
X-PU-EF-185G	1x185 (350)	26.10 (1.03)	177.00 (1191)	202.50 (1362)

# PU-EF (CP)

**SINGLE CORE FOR USE IN DRAG CHAINS, SHIELDED, UL/ CSA**



## CONSTRUCTION

**CONDUCTORS:** BARE COPPER FINE STRANDED, CLASS 6

**INSULATION:** THERMOPLASTIC ELASTOMERS (TPE)

**OUTER SHEATH:** PUR

**SHEATH COLOR:** ORANGE RAL 2003 (DESINA)

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• CU SCREEN, 85% COVERAGE</li> <li>• HALOGEN-FREE DIN EN 50267/IEC 60754</li> <li>• FLAME RETARDANT VDE 0482-332-1-2/IEC 60332-1</li> <li>• OIL RESISTANT EN 60811-2-1</li> <li>• CHEMICAL RESISTANT</li> </ul>	<ul style="list-style-type: none"> <li>• UL</li> <li>• CSA</li> <li>• VDE</li> </ul>

## TECHNICAL DETAILS

**TEMPERATURE RANGE:** -50°C UP TO 90°C (STATIC), -40°C UP TO 90°C (DYNAMIC)

**NOMINAL VOLTAGE RATING:** 600/1000 V

**MIN. BENDING RADIUS:** 4 X OD (STATIC), 7.5 X OD (DYNAMIC)

## APPLICATION

HIGHLY-FLEXIBLE CABLES FOR CONTINUOUS USE UNDER EXTREME CONDITIONS.  
STANDARD DRAG CHAIN WITHOUT TENSILE LOAD.

PART NUMBER	CROSS SECTION MM2 (AWG/MCM)	OD MM (INCH)	CU WEIGHT KG/100M (LBS/MFT)	CU WEIGHT KG/100M (LBS/MFT)
X-PU-EF-CP-6	1x6 (10)	7.60 (0.30)	7.90 (53)	12.30 (82)
X-PU-EF-CP-10	1x10 (8)	8.50 (0.34)	12.76 (85)	17.70 (119)
X-PU-EF-CP-16	1x16 (6)	9.90 (0.39)	18.62 (125)	24.10 (162)
X-PU-EF-CP-25	1x25 (4)	11.40 (0.49)	28.80 (194)	35.40 (238)
X-PU-EF-CP-35	1x35 (2)	13.90 (0.55)	40.07 (270)	48.80 (328)
X-PU-EF-CP-50	1x50 (1-1/0)	17.20 (0.67)	55.48 (373)	62.90 (423)
X-PU-EF-CP-70	1x70 (2/0)	17.90 (0.70)	77.56 (522)	86.30 (580)
X-PU-EF-CP-95	1x95 (3/0)	19.30 (0.76)	102.90 (692)	119.30 (803)
X-PU-EF-CP-120	1x120 (4/0)	21.40 (0.84)	128.30 (863)	145.20 (977)
X-PU-EF-CP-150	1x150 (300)	23.40 (0.92)	157.00 (1056)	178.00 (1198)
X-PU-EF-CP-185	1x185 (350)	27.00 (1.06)	193.50 (1301)	215.20 (1448)



# MULTIPLUS-PUL/CSA

## SUPER FLEXIBLE CONTROL CABLE UL / CSA



### CONSTRUCTION

**CONDUCTORS:** COPPER BARE, CLASS 6 STRANDING

**INSULATION:** THERMOPLASTIC ELASTOMERS (TPE)

**OUTER SHEATH:** PUR

**SHEATH COLOR:** GRAY OR BLACK

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• SUPER FLEXIBLE CONSTRUCTION</li> <li>• SUPER FINE STRAND BARE COPPER CONDUCTORS ACC. TO VDE 0295 CLASS 6</li> <li>• TPE-E OR PP CORE INSULATION BLACK WITH CONTINUOUS WHITE NUMBER IMPRINT + EARTH CONDUCTOR</li> <li>• CORES TWISTED IN LAYERS</li> <li>• PUR WITH RIP CORD</li> <li>• MICROBE AND HYDROLYSIS-RESISTANT, ADHESION-FREE</li> <li>• HALOGEN-FREE AND FLAME RETARDANT (IEC 60332-1)</li> <li>• OIL RESISTANT ACC. DIN EN RESP. IEC 60811-404 168H/100°C</li> <li>• DESIGNED FOR 5-10 MILLION BENDING/UNBENDING CYCLES IN CABLE CHAIN APPLICATIONS</li> </ul>	<ul style="list-style-type: none"> <li>• UL</li> <li>• CSA</li> <li>• cURus</li> </ul> <p>1000 v 80°C</p>

### TECHNICAL DETAILS

**TEMPERATURE RANGE:** -50°C UP TO 90°C (STATIC), -40°C UP TO 90°C (DYNAMIC)

**NOMINAL VOLTAGE RATING:** 1000 V AC UL/CUL 600V

**MIN. BENDING RADIUS:** 4 X OD (STATIC), 6.5 X OD (DYNAMIC)

### APPLICATION

FOR USE IN HIGH TEMPERATURE RANGES DUE TO THE CONSTRUCTION OF THE OUTER JACKET AND CONDUCTORS. THIS CABLE IS SUITABLE FOR USE IN MODERN AUTOMATED MANUFACTURING SYSTEMS WITHOUT RESTRICTION FOR INDOOR AND OUTDOOR USE. FOR HIGH ELECTRICAL AND MECHANICAL REQUIREMENTS IN DRAG CHAINS, MOTION DRIVE SYSTEMS, CONVEYOR AND CRANE APPLICATIONS. CAN BE USED IN DRY AND HUMID AREAS.

PART NUMBER	# OF CORES	CONDUCTOR MM2 (AWG)	OD MM (INCH)	CU WEIGHT KG/100M (LBS/MFT)	CU WEIGHT KG/100M (LBS/MFT)
287020100UL	2	1 (17)	5.80 (0.23)	2.00 (13.50)	4.50 (30.30)
287030075UL	3	0.75 (18)	5.50 (0.22)	2.30 (15.50)	4.30 (28.90)
287030100UL	3	1 (17)	6.10 (0.24)	3.00 (20.20)	5.50 (37.00)
287030150UL	3	1.5 (16)	6.80 (0.27)	4.50 (30.30)	7.50 (50.50)
287030250UL	3	2.5 (12)	7.90 (0.31)	7.50 (50.50)	12.10 (81.40)
287040050UL	4	0.5 (20)	5.50 (0.22)	2.00 (13.50)	4.00 (26.90)
287040075UL	4	0.75 (18)	5.90 (0.23)	3.00 (20.20)	5.60 (37.70)
287040100UL	4	1 (17)	6.70 (0.26)	4.00 (26.91)	6.90 (46.40)
287040150UL	4	1.5 (16)	7.40 (0.29)	6.00 (40.40)	10.10 (68.00)
287040250UL	4	2.5 (12)	8.60 (0.34)	10.00 (67.30)	16.00 (107.70)
287040400UL	4	4 (12)	12.50 (0.49)	15.40 (103.60)	24.20 (162.80)

PART NUMBER	# OF CORES	CONDUCTOR MM2 (AWG)	OD MM (INCH)	CU WEIGHT KG/100M (LBS/MFT)	CU WEIGHT KG/100M (LBS/MFT)
287040600UL	4	6 (10)	14.30 (0.56)	23.10 (155.40)	33.50 (225.4)
287041000UL	4	10 (8)	17.00 (0.67)	38.40 (258.40)	50.30 (338.4)
287041600UL	4	16 (6)	21.20 (0.83)	61.50 (413.80)	81.00 (545.00)
287042500UL	4	25 (4)	25.90 (1.02)	96.00 (645.9)	125.50 (844.40)
287050050UL	5	0.5 (20)	5.90 (0.23)	2.50 (16.80)	5.10 (34.30)
287050075UL	5	0.75 (18)	6.50 (0.26)	3.80 (25.60)	6.90 (46.40)
287050100UL	5	1 (17)	7.50 (0.30)	5.00 (33.60)	8.80 (59.20)
287050150UL	5	1.5 (16)	8.10 (0.32)	7.50 (50.50)	12.30 (82.80)
287050250UL	5	2.5 (12)	9.40 (0.37)	12.50 (84.10)	19.00 (127.80)
287050400UL	5	4 (12)	13.70 (0.54)	19.20 (129.20)	31.60 (212.60)
287050600UL	5	6 (10)	15.70 (0.62)	28.80 (193.80)	43.90 (295.40)
287051600UL	5	16 (6)	28.80 (1.13)	16.80 (113.00)	106.50 (716.60)
287052500UL	5	25 (4)	29.00 (1.14)	120.00 (807.40)	158.20 (1064.40)
287070050UL	7	0.5 (20)	6.89 (0.27)	3.50 (23.50)	6.90 (46.40)
287007075UL	7	0.75 (18)	7.40 (0.29)	5.30 (35.70)	9.10 (61.20)
287070100UL	7	1 (17)	8.40 (0.33)	7.00 (47.10)	14.50 (97.60)
287070150UL	7	1.5 (16)	9.40 (0.37)	10.50 (70.60)	17.00 (114.40)
287070250UL	7	2.5 (12)	11.00 (0.43)	17.50 (117.70)	26.50 (178.30)
287100250UL	10	2.5 (12)	13.70 (0.54)	25.00 (168.20)	36.80 (243.60)
287120050UL	12	0.5 (20)	10.00 (0.40)	6.00 (40.40)	12.30 (82.80)
287120075UL	12	0.75 (18)	11.50 (0.45)	9.00 (60.60)	17.00 (114.4)
287120100UL	12	1 (17)	12.40 (0.49)	12.00 (80.70)	21.20 (142.60)
287120150UL	12	1.5 (16)	14.50 (0.57)	18.00 (121.10)	30.30 (203.90)
287120250UL	12	2.5 (12)	17.20 (0.67)	30.00 (201.90)	41.10 (276.5)
287140250UL	14	2.5 (12)	19.40 (0.76)	35.00 (235.50)	47.60 (320.30)
287180050UL	18	0.5 (20)	12.30 (0.48)	9.00 (60.60)	18.30 (123.10)
287180750UL	18	0.75 (18)	14.10 (0.55)	13.50 (90.80)	29.90 (201.20)
287180100UL	18	1 (17)	15.90 (0.63)	18.00 (121.10)	32.90 (221.40)
287180150UL	18	1.5 (16)	18.20 (0.72)	27.00 (181.70)	40.40 (271.80)
287180250UL	18	2.5 (12)	21.30 (0.84)	45.00 (302.80)	60.70 (408.40)
287250050UL	25	0.5 (20)	14.30 (0.56)	12.50 (84.10)	26.40 (177.6)
287250075UL	25	0.75 (18)	16.20 (0.64)	18.80 (126.50)	36.40 (244.90)
287250100UL	25	1 (17)	18.00 (0.71)	25.00 (168.20)	46.00 (309.50)
287250150UL	25	1.5 (16)	20.20 (0.80)	37.50 (252.30)	62.80 (422.50)
287250250UL	25	2.5 (12)	23.90 (0.94)	62.50 (420.50)	83.70 (563.20)
287300050UL	30	0.5 (20)	16.80 (0.66)	18.00 (121.10)	34.90 (234.80)
287360050UL	36	0.5 (20)	16.80 (0.66)	18.00 (121.10)	34.90 (234.80)
287360075UL	36	0.75 (18)	18.60 (0.73)	27.00 (181.70)	63.10 (424.60)
287360100UL	36	1 (17)	21.90 (0.85)	36.00 (242.20)	64.20 (432.00)
287360150UL	36	1.5 (16)	25.20 (0.99)	54.00 (363.30)	72.90 (490.50)
287360250UL	36	2.5 (12)	29.10 (1.15)	90.00 (605.60)	119.80 (806.10)
287420100UL	42	1 (17)	23.50 (0.93)	42.00 (282.60)	74.20 (499.30)
287420150UL	42	1.5 (16)	26.60 (1.05)	63.00 (423.90)	105.20 (707.80)

# MULTIPLUS-CP UL/CSA

**SUPER FLEXIBLE CONTROL CABLE SCREENED WITH CORE (TPE) AND OUTER SHEATH (PUR) UL/ CSA**



## CONSTRUCTION

**CONDUCTORS:** COPPER BARE, CLASS 6 STRANDING

**INSULATION:** TPE

**JACKET:** POLYURETHANE RUBBER (PUR)

**SHEATH COLOR:** GRAY (RAL 7001)

**JACKET COLOR:** BLACK

**EARTH CONDUCTOR:** GREEN/YELLOW

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>• SUPER FLEXIBLE CONSTRUCTION</li> <li>• SUPER FINE STRAND BARE COPPER CONDUCTORS STRANDING ACC. TO VDE 0295 CLASS 6</li> <li>• CORES TWISTED IN LAYERS</li> <li>• MICROBE AND HYDROLYSIS-RESISTANT, ADHESION-FREE</li> <li>• HALOGEN-FREE, FLAME RETARDANT AND SELF-EXTINGUISHING</li> </ul>	<ul style="list-style-type: none"> <li>• UL</li> <li>• CSA</li> <li>• CURUS 1000V 80°C</li> <li>• VDE 0250/0285BR</li> <li>• HALOGEN FREE ACC. TO IEC 60754-1</li> </ul>

## TECHNICAL DETAILS

**TEMPERATURE RANGE:** -50°C UP TO 90°C (STATIC), -40°C UP TO 90°C (DYNAMIC)

**VOLTAGE RATING:** IEC 600/1000, UL 600V

**MIN. BENDING RADIUS:** 4 X OD (STATIC), 7.5 X OD (DYNAMIC)

**INSULATION RESISTANCE:** MIN 20 MOHM/KM AT 20°C

## APPLICATION

FOR USE IN HIGH TEMPERATURE RANGES DUE TO THE CONSTRUCTION OF THE JACKET AND CONDUCTORS. THIS CABLE IS SUITABLE FOR USE IN MODERN AUTOMATED MANUFACTURING SYSTEMS WITHOUT RESTRICTION FOR INDOOR AND OUTDOOR USE IN DRAG CHAINS AND MOTION DRIVE SYSTEMS.

PART NUMBER	# OF CORES	CONDUCTOR AWG	OD H X W INCHES (MM)	CABLE WT LBS/MFT (KG/KM)	CABLE WT LBS/MFT (KG/KM)
288020050UL	2	0.5 (20)	5.70 (0.22)	2.70 (18.20)	4.50 (30.30)
288020075UL	2	0.75 (18)	6.20 (0.24)	3.20 (21.50)	5.20 (35.00)
288020100UL	2	1 (17)	6.60 (0.26)	4.30 (28.90)	6.50 (43.70)
288020150UL	2	1.5 (16)	7.20 (0.28)	5.20 (35.00)	7.60 (51.10)
288030050UL	3	0.5 (20)	6.10 (0.24)	3.20 (21.50)	5.20 (35.00)
288030075UL	3	0.75 (18)	6.60 (0.26)	4.50 (30.30)	6.60 (44.40)
288030100UL	3	1 (17)	7.10 (0.28)	5.20 (35.00)	7.50 (50.50)
288030150UL	3	1.5 (16)	7.90 (0.31)	7.20 (48.40)	10.00 (67.30)
288030250UL	3	2.5 (12)	9.40 (0.37)	10.60 (71.30)	14.40 (96.90)
288040050UL	4	0.5 (20)	6.50 (0.26)	4.30 (28.90)	6.50 (43.70)
288040075UL	4	0.75 (18)	7.10 (0.28)	5.20 (35.00)	7.70 (51.80)
288040100UL	4	1 (17)	7.80 (0.31)	6.70 (45.10)	9.70 (65.30)
288040150UL	4	1.5 (16)	8.50 (0.33)	8.60 (57.90)	12.10 (81.40)
288040250UL	4	2.5 (12)	10.10 (0.40)	13.10 (88.10)	17.70 (119.10)
288050050UL	5	0.5 (20)	7.10 (0.28)	4.70 (31.60)	7.20 (48.40)
288050075UL	5	0.75 (18)	8.00 (0.31)	6.50 (43.70)	9.60 (64.60)
288050100UL	5	1 (17)	8.60 (0.34)	7.70 (51.80)	11.10 (74.70)
288050150UL	5	1.5 (16)	9.60 (0.38)	10.60 (71.30)	14.80 (99.60)
288050250UL	5	2.5 (12)	11.40 (0.45)	16.00 (107.70)	21.40 (144.00)
288070050UL	7	0.5 (20)	8.50 (0.33)	6.20 (41.70)	9.90 (66.60)
288070075UL	7	0.75 (18)	9.50 (0.37)	8.50 (57.20)	12.90 (86.80)
288070100UL	7	1 (17)	10.40 (0.41)	10.20 (68.60)	15.00 (100.90)
288070150UL	7	1.5 (16)	11.50 (0.45)	14.10 (94.90)	19.90 (133.90)
288070250UL	7	2.5 (12)	14.00 (0.55)	21.90 (147.40)	30.10 (202.5)
288120050UL	12	0.5 (20)	9.90 (0.39)	9.20 (61.90)	14.00 (94.20)
288120075UL	12	0.75 (18)	11.10 (0.44)	12.60 (84.80)	18.50 (124.5)
288120100UL	12	1 (17)	12.20 (0.48)	16.10 (108.30)	22.90 (154.10)
288120150UL	12	1.5 (16)	13.80 (0.54)	24.40 (164.20)	32.30 (217.30)
288120250UL	12	2.5 (12)	16.60 (0.65)	33.90 (228.10)	47.90 (322.30)
288180050UL	18	0.5 (20)	11.90 (0.47)	13.20 (88.80)	20.40 (137.30)
288180075UL	18	0.75 (18)	13.40 (0.53)	18.10 (121.80)	26.10 (175.60)
288180100UL	18	1 (17)	14.80 (0.58)	24.40 (164.20)	34.30 (230.80)
288180150UL	18	1.5 (16)	16.60 (0.65)	34.00 (228.80)	45.50 (306.10)
288180250UL	18	2.5 (12)	19.80 (0.78)	49.20 (331.10)	68.50 (460.90)
288250050UL	25	0.5 (20)	14.10 (0.55)	19.10 (128.50)	28.60 (192.40)
288250075UL	25	0.75 (18)	15.80 (0.62)	26.10 (175.60)	37.50 (252.30)
288250100UL	25	1 (17)	17.30 (0.68)	33.10 (222.70)	46.20 (310.90)
288250150UL	25	1.5 (16)	19.60 (0.77)	46.10 (310.20)	62.00 (417.20)
288250250UL	25	2.5 (12)	23.60 (0.93)	67.40 (453.50)	98.10 (660.10)
288360050UL	36	0.5 (20)	14.90 (0.59)	21.90 (147.40)	37.00 (249.00)
288360075UL	36	0.75 (18)	18.10 (0.71)	31.50 (211.90)	49.60 (333.70)
288360150UL	36	1.5 (16)	22.30 (0.88)	58.80 (395.60)	84.40 (567.90)
288420075UL	42	0.75 (18)	19.60 (0.77)	36.30 (244.20)	57.90 (389.60)
288420150UL	42	1.5 (16)	24.20 (0.95)	67.90 (456.90)	97.80 (658.00)

# MOTOR CABLE

UL FOR USE IN DRAG CHAINS, SHIELDED, UL / CSA



## CONSTRUCTION

**CONDUCTORS:** BARE COPPER FINE STRANDED, CLASS 6

**INSULATION:** POLYPROPYLENE

**OUTER SHEATH:** PUR

**OUTER SHEATH COLOR:** ORANGE RAL 2003

FEATURES	APPROVALS
<ul style="list-style-type: none"> <li>TINNED COPPER SCREEN</li> <li>EXTRA FLEXIBLE CONDUCTORS</li> <li>FLAME RETARDANT AND SELF-EXTINGUISHING VDE 0482-332-1-2/IEC 60332-1</li> <li>OIL RESISTANT EN 60811-2-1</li> </ul>	<ul style="list-style-type: none"> <li>UL</li> <li>CSA</li> <li>VDE</li> </ul>

## TECHNICAL DETAILS

**TEMPERATURE RANGE:** -50°C UP TO 80°C (FIXED), -40°C UP TO 80°C (MOVED)

**AV VOLTAGE RAITING:** 600/1000 V

**BEND RADIUS:** 5 X OD (FIXED), 7.5 X OD (MOVED)

## APPLICATION

HIGHLY-FLEXIBLE SERVO CABLES SUITABLE FOR CONNECTING CABLES BETWEEN SERVO CONTROLLERS AND MOTORS IN MACHINE TOOLS AND DRAG CHAINS WITH MEDIUM MECHANICAL STRESS.

PART NUMBER	CROSS SECTION MM2 (AWG)	OD MM (INCH)	CU WEIGHT KG/100M (LBS/MFT)	CU WEIGHT KG/100M (LBS/MFT)
6FX8008-1BA35	4G 35 + 2 x 1.50	29.80 (1.13)	159.50 (107.3)	201.50 (135.60)
6FX8008-1BA61	4G 16 + 2 x 1.50	22.50 (0.88)	81.60 (54.90)	110.00 (74.00)
6FX8008-1BA25	4G 25 + 2 x 1.50	26.20 (1.03)	117.20 (78.80)	149.00 (100.30)
6FX8008-1BA51	4G 10 + 2 x 1.50	19.90 (0.78)	56.00 (37.70)	78.20 (52.60)
6FX8008-1BA41	4G 6 + 2 x 1.50	16.80 (0.66)	36.50 (24.60)	54.00 (36.30)
6FX8008-1BA11	4G 1.5 + 2 x 1.50	11.60 (0.46)	16.40 (11.00)	24.40 (16.40)
6FX8008-1BA21	4G 2.5 + 2 x 1.50	13.40 (0.53)	18.90 (12.70)	31.00 (20.90)
6FX8008-1BA31	4G 4 + 2 x 1.50	14.80 (0.58)	26.10 (17.60)	40.80 (27.50)
6FX8008-1BB11	4 X 1.5 (16)	9.00 (0.35)	9.00 (6.10)	15.90 (10.70)
6FX8008-1BA50	4G 50 + 2 x 1.50	34.00 (1.34)	221.40 (149.90)	275.40 (185.30)
6FX8008-1BB21	4 X 2.5 (12)	10.60 (0.42)	13.50 (9.10)	23.50 (15.80)
6FX8008-1BB31	4 X 4 (12)	11.90 (0.47)	20.60 (13.90)	32.30 (21.70)
6FX8008-1BB41	4 X 6 (10)	14.70 (0.58)	31.50 (21.20)	46.40 (31.20)
6FX8008-1BB51	4 X 10 (8)	17.50 (0.69)	48.80 (32.80)	67.20 (45.20)
6FX8008-1BB61	4 X 16 (6)	21.60 (0.85)	76.90 (51.70)	108.90 (73.30)
6FX8008-1BB25	4 X 25 (4)	25.40 (1.00)	110.00 (74.00)	152.30 (102.50)
6FX8008-1BB35	4 X 35 (2)	29.70 (1.17)	151.00 (101.60)	208.00 (140.00)
6FX8008-1BB50	4 X 50 (1-1/0)	33.40 (1.31)	213.00 (143.30)	271.00 (182.30)
6FX8008-1BB70	4 X 70 (2/0)	42.50 (1.67)	302.50 (203.50)	412.30 (277.40)

## HIGH-TEMPERATURE AND SEVERE-DUTY CABLES 150°C

### DuraBlend SRML



- SILICONE FORMULATIONS SUITABLE FOR UV, OZONE & MOISTURE EXPOSURE
- SUITABLE FOR APPLICATIONS TO -60°C
- NOT SUITABLE FOR IMMERSED APPLICATIONS
- UL VW-1 FLAME RATING
- LSZH (LOW SMOKE, ZERO HALOGEN)
- CONDUCTORS 22 AWG – 6 AWG

### ETFE 150



- OUTSTANDING CHEMICAL AND FLUID RESISTANCE
- HEAT AGE AND OZONE TREATMENT
- EASILY STRIPPED AND TERMINATED
- CONDUCTORS: 22 AWG – 10 AWG (300 V)
- 22 AWG – 6 AWG (600 V)

### SRML-K 150/200



- SUPERIOR CUT-THROUGH, IMPACT, AND ABRASION RESISTANCE TEARING IN OIL
- BRAIDED ARAMID FIBER PROVIDES EXCELLENT MECHANICAL PROTECTION
- SILICONE RUBBER IN EXTREME ENVIRONMENTS, EXCEEDING 200°C, EAVES A NON-CONDUCTIVE ASH AND RETAINS EXCELLENT INSULATION PROPERTIES
- CONDUCTORS: 16 AWG – 750 MCM
- USED FOR CRANE MFG AND STEEL MFG

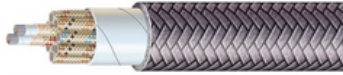
### Oil-Mist Sil-A-Blend (OMR 150)



- SPECIALLY FORMULATED TO RESIST SWELLING TEARING IN OIL SUPERIOR FLEXIBILITY MIST APPLICATIONS AND PROVIDED ADDE ABRASION AND RESISTANCE
- SILICONE FORMULATIONS SUITABLE FOR UV, OZONE AND MOISTURE EXPOSURE
- NOT SUITABLE FOR IMMERSED APPLICATIONS
- SUITABLE FOR APPLICATIONS TO -60°C
- LSZH (LOW SMOKE, ZERO HALOGEN)
- CONDUCTORS: 18 AWG – 4/0 AWG (1,000 V)
- 18 AWG – 1 AWG (3,000 V)
- 8 AWG – 350 MCM (5,000 V)
- 4 AWG – (8,000 V)

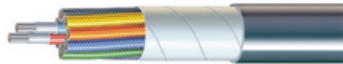
## **HIGH-TEMPERATURE AND SEVERE-DUTY CABLES 200°C**

### **SUPER J BRAID-LESS SILICONE**



- SILICONE FORMULATIONS SUITABLE FOR UV, OZONE AND MOISTURE EXPOSURE
- SUPERIOR FLEXIBILITY
- SUPERIOR ABRASION AND CUT-THROUGH RESISTANCE
- NOT SUITABLE FOR IMMERSED APPLICATIONS
- CONDUCTORS: 18 AWG – 500 MCM (1KV)
- 8 AWG – 350 MCM (3KV, 5KV, 8KV, 15KV)
- USED FOR CRANE MFG AND STEEL MFG

### **BRAIDED FEP/FEP**



- OUTSTANDING CHEMICAL, FLUID, AGE, AND OZONE RESISTANCE
- CABLE FILLERS, WHERE NEEDED, ARE MADE WITH FLAME IMPERVIOUS FIBERS WITH MOISTURE REPELLENT FINISH
- “TORQUE FREE” DESIGN. THIS ELIMINATES MEMORY FOUND IN TRADITIONAL RIGHT HAND OR LEFT HAND TWISTED CABLES

### **SRG-K**



- SILICONE FORMULATIONS SUITABLE FOR UV, OZONE & MOISTURE EXPOSURE
- BINDER TAPE IS NON-HYDROSCOPIC, NON-WICKING POLYESTER SUPERIOR ABRASION AND CUT-THROUGH RESISTANCE
- SUITABLE FOR APPLICATIONS TO -60°C
- ARAMID K-FIBER JACKET PROVIDES SUPERIOR CUT THROUGH ABRASION RESISTANCE

### **TLC 200**



- SILICONE FORMULATIONS SUITABLE FOR UV, OZONE & MOISTURE EXPOSURE
- MOLTEN-SPLASH TAPE PROVIDES EXTENDED FLEX LIFE IN SPLASH ENVIRONMENT
- SUITABLE FOR APPLICATIONS TO -60°C
- OUTER STAINLESS STEEL OPEN BRAID REINFORCEMENT
- USED FOR LADLE CAR

### **FEP/FEP**



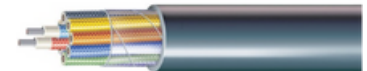
- OUTSTANDING CHEMICAL, FLUID, AGE, AND OZONE RESISTANCE
- OFFERS OPTIMUM INSULATION FOR SMALLER APPLICATIONS AT HALF THE SPACE OF OTHER CABLE CONSTRUCTIONS
- CABLE UTILIZES “TORQUE FREE” DESIGN. THIS ELIMINATES MEMORY FOUND IN TRADITIONAL RIGHT HAND OR LEFT HAND TWISTED CABLES
- CONDUCTORS: 22 AWG – 2 AWG
- FOR AREAS NEEDED FOR CABLING, PULLS THROUGH CONDUITS EASY AND HIGH MOISTURE RESISTANCE

### **FLUIDGARD 200**



- OUTSTANDING CHEMICAL, FLUID, AGE, AND OZONE RESISTANCE
- CABLE UTILIZES “TORQUE FREE” DESIGN. THIS ELIMINATES MEMORY FOUND IN TRADITIONAL RIGHT HAND OR LEFT HAND TWISTED CABLES
- ARAMID K-FIBER JACKET PROVIDES SUPERIOR CUT THROUGH ABRASION RESISTANCE

### **SRG-S**



- SILICONE FORMULATIONS SUITABLE FOR UV, OZONE & MOISTURE EXPOSURE
- BINDER TAPE IS NON-HYDROSCOPIC, NON-WICKING POLYESTER
- SUITABLE FOR APPLICATIONS TO -60°C
- OPTIONAL WIRE BRAID ARMOR AVAILABLE

### **SKS SOAKING PIT CABLE**



- SILICONE FORMULATIONS SUITABLE FOR UV, OZONE & MOISTURE EXPOSURE
- BINDER TAPE IS NON-HYDROSCOPIC, NON-WICKING POLYESTER
- SUITABLE FOR APPLICATIONS TO -60°C
- ARAMID K-FIBER JACKET PROVIDES SUPERIOR CUT THROUGH ABRASION RESISTANCE

### **TITAN K or S**

- SUPER J JACKET WITH REINFORCEMENT IN KEVLAR OR STAINLESS STEEL
- DESIGNED FOR REEL APPLICATION

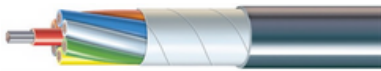
## HIGH-TEMPERATURE AND SEVERE-DUTY CABLES 250°C

### TEMPERFLEX 250



- INSULATED WITH PTFE TAPE AND FIBERGLASS, WITH A BRAIDED KEVLAR JACKET
- RETAINS FLEXIBILITY FOR LONG PERIODS, EVEN AFTER EXPOSURE TO CONTINUOUS HIGH TEMPERATURE
- ARAMID FIBER JACKET PROVIDES SUPERIOR CUT THROUGH AND ABRASION RESISTANCE

### PFA/PFA



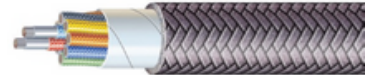
- PFA LEADS HAVE OUTSTANDING CHEMICAL, FLUID, AGE, AND OZONE RESISTANCE
- “TORQUE FREE” DESIGN ELIMINATES MEMORY FOUND IN TRADITIONAL RIGHT HAND OR LEFT HAND TWISTED CABLES
- SMALL DIAMETER

### TMMG MUDGUN



- MOISTURE, OIL, FLUID, AND ABRASION RESISTANT
- STAINLESS STEEL JACKET PROVIDES MECHANICAL STRENGTH FOR SEVERE DUTY APPLICATIONS
- FOR USE AROUND BLAST FURNACES, OR WHERE SUBJECT TO SPARKS, SPLASHING METAL AND REPEATED HEATING AND COOLING
- USED FOR BLAST FURNACE AREA

### FLUIDGARD 250



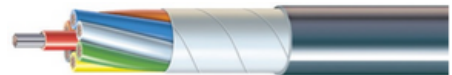
- PFA LEADS HAVE OUTSTANDING CHEMICAL, FLUID, AGE, AND OZONE RESISTANCE
- PTFE BINDER TAPE PROVIDES ADDITIONAL MOISTURE RESISTANCE
- ARAMID K-FIBER JACKET PROVIDES SUPERIOR CUT THROUGH AND ABRASION RESISTANCE

### TEMPERGARD FZ-101



- MOISTURE, OIL, FLUID, AND ABRASION RESISTANT
- FILLERS, WHEN NEEDED, ARE MADE WITH FLAME-IMPERVIOUS FIBERS WITH MOISTURE-REPELLENT FINISH
- “TORQUE FREE” DESIGN ELIMINATES MEMORY FOUND IN TRADITIONAL RIGHT HAND OR LEFT HAND TWISTED CABLES
- BINDER TAPES PROVIDE HEAT AND MOISTURE RESISTANCE

### PFA INSULATED TRAY CABLE



- EXCELLENT PERFORMANCE AT TEMPERATURE EXTREMES
- HIGH HEAT AND WEATHER RESISTANCE
- EXCELLENT CHEMICAL AND OIL RESISTANCE
- EXTRUDED FEP INSULATION AVAILABLE IN COLORS
- FEP JACKET MATERIAL PROVIDES TOUGH, LOW-FRICTION PROTECTION
- LOW FLAMMABILITY



## **HIGH-TEMPERATURE AND SEVERE-DUTY CABLES 200°C**

### **SAB**



- SILICONE FORMULATIONS SUITABLE FOR UV, OZONE, AND MOISTURE EXPOSURE
- BINDER TAPE IS NON-HYDROSCOPIC, NON-WICKING POLYESTER
- SUITABLE FOR APPLICATIONS TO -60°C
- K-FIBER JACKETING AVAILABLE

### **FEP INSULATED TRAY CABLE**



- EXCELLENT PERFORMANCE AT TEMPERATURE EXTREMES
- HIGH HEAT AND WEATHER RESISTANCE
- EXCELLENT CHEMICAL AND OIL RESISTANCE
- EXTRUDED FEP INSULATION AVAILABLE IN COLORS
- FEP JACKET MATERIAL PROVIDES TOUGH, LOW-FRICTION PROTECTION
- LOW FLAMMABILITY

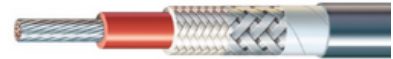
## **HIGH-TEMPERATURE AND SEVERE-DUTY CABLES 250°C CONT.**

### **FEP FLARE STACK CABLE**



- EXTRUDED FLUORINATED ETHYLENE PROPYLENE (FEP) JACKET
- EXCELLENT WEATHER AND CHEMICAL RESISTANCE
- HIGH VOLTAGE SILICONE INSULATION SYSTEM PROVIDES EXCELLENT HEAT AND VOLTAGE PROTECTION
- HIGH VOLTAGE SUITABLE FOR FLARE STACK IGNITER APPLICATIONS

### **PFA FLARE STACK CABLE**



- EXTRUDED PERFLUOROALKOXY FLUOROPOLYMER (PFA) JACKET
- EXCELLENT WEATHER AND CHEMICAL RESISTANCE
- HIGH VOLTAGE SILICONE INSULATION SYSTEM PROVIDES EXCELLENT HEAT AND VOLTAGE PROTECTION
- HIGH VOLTAGE SUITABLE FOR FLARE STACK IGNITER APPLICATIONS

### **THERMOCOUPLE WIRE**



- FLAME RETARDANT
- AVAILABLE IN PARALLEL CONDUCTORS, TWISTED PAIR AND SHIELDED
- TYPE: J, K, JX, KX, RSX
- CONDUCTORS: 24 AWG – 14 AWG

### **PFA 260°C THERMOCOUPLE**



- FLAME RETARDANT
- AVAILABLE IN PARALLEL CONDUCTORS, TWISTED PAIR AND SHIELDED
- TYPE: J, K, JX, KX, RSX
- CONDUCTORS: 24 AWG – 14 AWG

## **HIGH-TEMPERATURE AND SEVERE-DUTY CABLES 450°C +**

### **TEMPERGARD 2000**



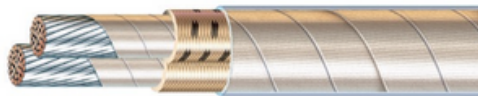
- USED IN IRON, STEEL, PAPER, AND GLASS PLANTS
- MOISTURE, OIL, FLUID, AND ABRASION RESISTANT
- FOR USE IN CIRCUITS WHERE THE PRESERVATION OF CIRCUIT INTEGRITY UNDER ABUSIVE ENVIRONMENTS IS DESIRED.
- BRAIDED FIBERGLASS COVER WITH A HIGH-TEMPERATURE FINISH
- USED AROUND THE FURNACES (RTDS) AND HIGH HEAT AREAS FOR MULTIPLE LEAD CABLES

### **TMMG MUDGUN 450**



- MOISTURE, OIL, FLUID, AND ABRASION RESISTANT
- GLASS BRAID JACKET IMPREGNATED WITH MOISTURE HEAT RESISTANT FINISH
- STAINLESS STEEL JACKET PROVIDES MECHANICAL STRENGTH
- USED FOR SEVERE DUTY APPLICATIONS

### **FLARE STACK IGNITION CABLE**



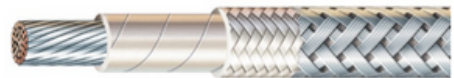
- EXTRUDED FLUORINATED ETHYLENE PROPYLENE (FEP) JACKET
- EXCELLENT WEATHER AND CHEMICAL RESISTANCE
- SUPERIOR HEAT AND VOLTAGE PROTECTION
- HIGH FLEXIBILITY

### **HEAT DEFENDER 650**



- 650°C / 600 VOLTS - FACTORY RATED
- SUPERIOR RESISTANCE TO HIGH TEMPERATURE
- RESISTS BRAID FRAY AND PUSHBACK
- NOT RECOMMENDED FOR FLEXING APPLICATIONS

### **MCS FURNACE CABLE**



- SUPERIOR HIGH TEMPERATURE AND OXIDATION RESISTANCE
- RESISTANT TO MANY CHEMICALS
- STAINLESS STEEL OUTER BRAID PROVIDES MECHANICAL AND ADDITIONAL THERMAL PROTECTION
- MAXIMUM CONTINUOUS CONDUCTOR TEMPERATURE: 1000°C

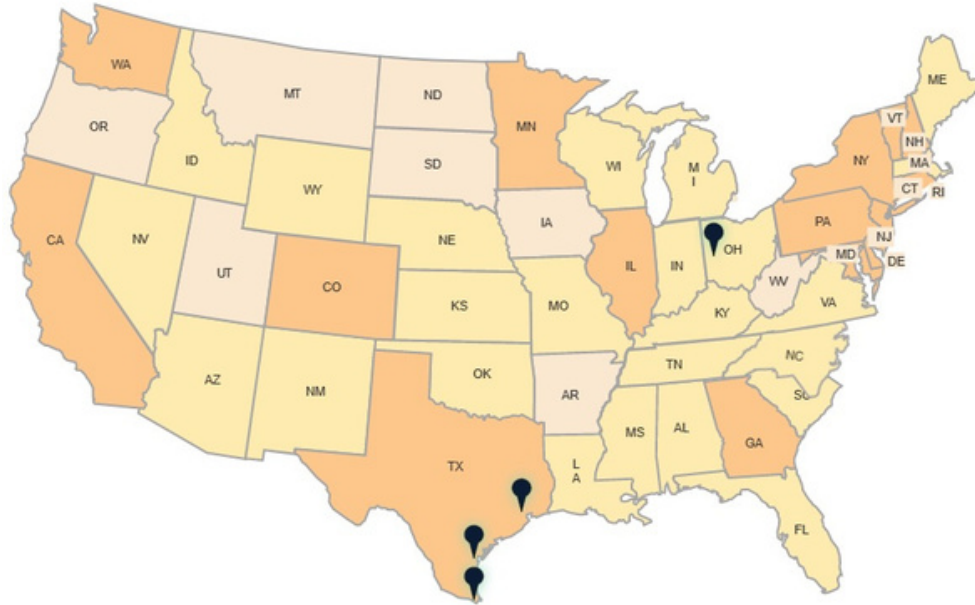
# 80 SERIES PENDANT STATION

4- 6- 8- 10- 12 BUTTONS AVAILABLE

FOR INDOOR USE ONLY IN STANDARD CONFIGURATIONS

FEATURES	OPTIONS AVAILABLE
<ul style="list-style-type: none"> <li>• SERGONOMIC DESIGN</li> <li>• ABS PLASTIC CONSTRUCTION FOR MAXIMUM IMPACT RESISTANCE</li> <li>• NEMA 4X RATED FOR INDOOR AND OUTDOOR USE.</li> <li>• NEOPRENE BUTTON COVERS WITH INTERCHANGEABLE LEGENDS</li> <li>• RATED FOR UP TO 70C AMBIENT TEMPS</li> <li>• STEPPED CORD GRIP TO ACCEPT A WIDE RANGE OF WIRE DIAMETERS</li> <li>• STRAIN RELIEF CONNECTION POINTS</li> <li>• CLEAR VIEW INSERT LEGENDS</li> </ul>	<ul style="list-style-type: none"> <li>• SINGLE AND DUAL SPEED MECHANICALLY INTERLOCKED INSERTS</li> <li>• MOMENTARY OR MAINTAINED ON/OFF</li> <li>• MUSHROOM E-STOP</li> <li>• SELECTOR SWITCH A-BOTH-B</li> <li>• 4-12 BUTTON OPTIONS</li> <li>• TOGGLE SWITCH INSERTS</li> <li>• PILOT LIGHT</li> </ul>





# US CORPORATE OFFICE

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## ADDITIONAL STOCK LOCATIONS

📍 HOUSTON, TX

📍 BROWNSVILLE, TX

📍 INGLESIDE, TX

📍 SOUTH CHARLESTON, OH



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