



SH class K

5-35 kV

ICEA S-75-381/NEMA WC-58

Single Conductor Medium Voltage Portable Power Cable

APPLICATIONS

- These cables are designed for use on mobile substation equipment
- Other industrial, mining applications

CONSTRUCTION

Conductors

Annealed flexible stranded tin coated copper Class K in accordance with ASTM B-172 and ICEA S-75-381.

Conductor shield

Semi-conducting tape + layer over the conductor

Insulation

Ethylene-propylene rubber (EPR)

Insulation shield

Semi-conducting tape + composite tinned copper/polyamide braid. Covering minimum 60%

Separator

Reinforcing tape over insulation shield

Jacket

Heavy duty thermosetting poly-chloroprene (CR) jacket

Color of jacket

Black or other colors can be provided

Minimum bending radius

Eight times overall diameter of the cable



Features

Excellent flexibility

Excellent impact and abrasion resistant

Highly ozone, sun, weather and flame resistant

Oil and heat resistant

Rated and flexible at -40°C

Indent printed for easy identification

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Standard length cable packing

1000ft on drums. Other forms of packing and delivery are available on request

Standard Print Legend

TF CABLE 3 (VOLTAGE)(SIZE) TYPE SH OIL RESISTANT -40°C +90°C

Cross-section- number of conductor	Stranding	Nominal Insulation thickness		Nominal Jacket thickness		Approx. Overall Diameter		Approx. Weight		Current – carrying ¹⁾ Capacity at 40°C
AWG or MCM	No. of wires	mm	Inches	mm	Inches	mm	Inches	kg/km	Lbs. /1kft.	A
Type SH 5 kV										
2AWG-1	646	2.79	0.110	3.18	0.125	23.7	0.93	860	578	195
1/0AWG-1	1056	2.79	0.110	3.56	0.140	25.6	1.01	1114	748	260
2/0AWG-1	1261	2.79	0.110	3.56	0.140	26.4	1.04	1235	830	299
4/0AWG-1	2007	2.79	0.110	3.94	0.155	30.2	1.19	1740	1169	400
250MCM-1	2496	3.05	0.120	3.94	0.155	32.3	1.27	2068	1389	444
350MCM-1	3355	3.05	0.120	4.32	0.170	35.9	1.41	2653	1783	549
500MCM-1	4880	3.05	0.120	4.83	0.190	41.8	1.65	3598	2417	688
750MCM-1(*)	7280	3.05	0.120	4.83	0.190	45.8	1.80	4866	3269	889
1000MCM-1(*)	9919	3.05	0.120	5.21	0.205	51.2	2.02	6365	4277	1061
Type SH 8 kV										
2AWG-1	646	3.81	0.150	3.56	0.140	26.3	1.04	1004	675	195
1/0AWG-1	1056	3.81	0.150	3.94	0.155	29.2	1.15	1328	892	260
2/0AWG-1	1261	3.81	0.150	3.94	0.155	30.4	1.20	1478	993	299
4/0AWG-1	2007	3.81	0.150	3.94	0.155	33.6	1.32	1974	1326	400
250MCM-1	2496	3.81	0.150	4.32	0.170	35.5	1.40	2299	1545	444
350MCM-1	3355	3.81	0.150	4.32	0.170	38.4	1.51	2850	1915	549
500MCM-1	4880	3.81	0.150	4.83	0.190	43.0	1.69	3738	2512	688
Type SH 15 kV										
2AWG-1	646	5.33	0.210	3.94	0.155	29.7	1.17	1208	812	195
1/0AWG-1	1056	5.33	0.210	3.94	0.155	32.1	1.26	1520	1021	259

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Cross-section- number of conductor	Stranding	Nominal Insulation thickness		Nominal Jacket thickness		Approx. Overall Diameter		Approx. Weight		Current – carrying ¹⁾ Capacity at 40°C
AWG or MCM	No. of wires	mm	Inches	mm	Inches	mm	Inches	kg/km	Lbs. /1kft.	A
2/OAWG-1	1261	5.33	0.210	3.94	0.155	33.3	1.31	1678	1127	298
4/OAWG-1	2007	5.33	0.210	4.32	0.170	37.2	1.46	2245	1508	397
250MCM-1	2496	5.33	0.210	4.32	0.170	38.4	1.51	2526	1697	440
350MCM-1	3355	5.33	0.210	4.83	0.190	42.2	1.66	3175	2133	543
500MCM-1	4880	5.33	0.210	4.83	0.190	45.9	1.81	4008	2693	678
750MCM-1(*)	7280	5.33	0.210	5.21	0.205	51.1	2.01	5398	3627	-
1000MCM-1(*)	9919	5.33	0.210	5.21	0.205	55.8	2.20	6865	4613	-
Type SH 25 kV										
2AWG-1 ⁽¹⁾	646	7.49	0.295	3.94	0.155	34.4	1.35	1523	1023	-
1AWG-1	836	7.49	0.295	4.32	0.170	36.4	1.43	1747	1174	222
1/OAWG-1	1056	7.49	0.295	4.32	0.170	37.6	1.48	1929	1296	255
2/OAWG-1	1261	7.49	0.295	4.32	0.170	38.9	1.53	2108	1416	293
4/OAWG-1	2007	7.49	0.295	4.83	0.190	42.5	1.67	2694	1810	389
250MCM-1	2496	7.49	0.295	4.83	0.190	43.7	1.72	2988	2008	430
350MCM-1	3355	7.49	0.295	4.83	0.190	46.6	1.83	3579	2405	529
500MCM-1	4880	7.49	0.295	5.21	0.205	51.1	2.01	4540	3050	659
Type SH 35 kV										
2AWG-1 ⁽¹⁾	646	8.76	0.345	4.83	0.190	37.9	1.49	1798	1208	-
1/OAWG-1 ⁽¹⁾	1056	8.76	0.345	4.83	0.190	40.0	1.59	2118	1430	255
2/OAWG-1 ⁽¹⁾	1261	8.76	0.345	4.83	0.190	41.0	1.61	2287	1537	293
4/OAWG-1 ⁽¹⁾	2007	8.76	0.345	5.21	0.205	44.5	1.75	2872	1930	389
250MCM-1 ⁽¹⁾	2496	8.76	0.345	5.21	0.205	45.9	1.81	3188	2142	430
350MCM-1 ⁽¹⁾	3355	8.76	0.345	5.59	0.220	49.4	1.94	3860	2594	529

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AWG or MCM	No. of wires	mm	Inches	mm	Inches	mm	Inches	kg/km	Lbs. /1kft.	A
500MCM-1 ^(*)	4880	8.76	0.345	5.59	0.220	54.8	2.16	4887	3284	659
750MCM-1 ^(*)	7280	8.76	0.345	5.59	0.220	58.6	2.31	6260	4206	-

¹⁾ Standard ICEA S-75-381 Table H-1

(*)Based on standard