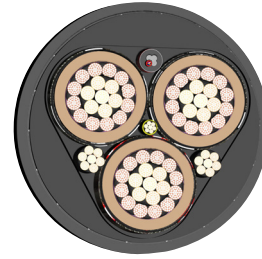
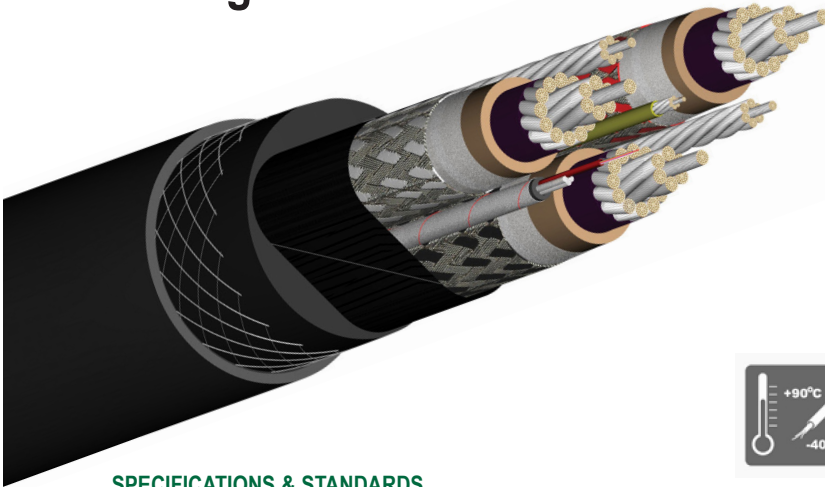


Round Portable Power Cable with Fiber Optic Modulus Mining Grade



SPECIFICATIONS & STANDARDS

Based on ICEA S-75-381/NEMA WC-58

CONSTRUCTION:

Conductors	Annealed flexible stranded tin coated copper in accordance with ASTM B 172 and ICEA S-75-381, Tab. 3-22
Conductor shield:	Semi-conductive layer over the conductor. ICEA S-75-381 sec. 3.14
Insulation:	Ethylene-propylene rubber (EPR)
Insulation shield:	Non-conducting bedding tape + Composite tinned copper/polyamide braid. Covering minimum 60%
Circuit identification:	The polyamide in the shielding braid is colored black, white, red in accordance with ICEA S-75-381
Grounding:	Annealed tin coated copper acc. Tab. 3-25 of ICEA S-75-381
Fiber Optic Modulus (FOM):	A-D(ZN)13Y 2x6G50/125
Identification of the fibers:	Color coding of the fibers and buffering tubes
Fiber:	50 or 62,5 μm can be provided, Diameter over cladding 125 μm
Fiber covering:	Buffering tube with filling compound
Core arrangement:	Two earth conductor and one fiber-optic element interstitial
Sheath over the laid up cores:	Special material
Assembly:	Three power, two bare grounding conductors, FOM cabled together with insulated ground check conductor in center
Separator:	A single faced rubber filled binder tape applied over core.
Outer jacket:	Black, extra heavy duty, high torsion resistant, integral-filled, reinforced polychloroprene thermosetting jacket, ICEA S-75-381 Tab. 3-3, 3-22, Sec.3.21. TPU optional jacket available
Color of outer jacket:	Black or other colors can be provided
Minimum bending radius:	Eight times overall diameter of the cable

FEATURES	APPLICATION
<ul style="list-style-type: none"> - Excellent flexibility - Highly ozone, sun, weather and flame resistant - Rated and flexible at -40°C. In black poly-chloroprene and all colors TPU jackets suitable for -50°C. - Excellent impact and abrasion resistant - Oil and heat resistant - Indent printed for easy identification 	<ul style="list-style-type: none"> - These cables are used for heavy mobile equipment such as; shovels, dredges, drills, other track equipment - FOM integrated for signal transmission. Ex: a camera on shuttle cars. - Other industrial, mining applications

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

Power Conductor Size	Power Conductor Stranding	Nominal Insulation Thickness	Jacket Thickness	Grounding Conductor		Approx. Weight		Approx. O.D.	Maximum Permissible Tensile Force
				Size	Stranding				
AWG or MCM	No. of Stranding	Inches	Inches	AWG	No. of Wires	lbs./1000	kg/km	Inches	N
6 AWG	133 7x19	0.110	0.185	10	49 7x7	1543	2296	1.51	600
4AWG	259 7x37	0.110	0.185	8	133 7x19	1849	2752	1.60	950
2 AWG	259 7x37	0.110	0.205	6	133 7x19	2358	3509	1.79	1500
1 AWG	259 7X37	0.110	0.205	5	133 7x19	2430	3618	1.88	1900
1/0 AWG	266 19X14	0.110	0.220	4	259 7x37	3056	4549	2.08	2400
2/0 AWG	342 19x18	0.110	0.220	3	259 7x37	3689	5490	2.12	3000
3/0 AWG	418 19X22	0.110	0.235	2	259 7x37	4320	6443	2.26	3800
4/0 AWG	532 19x28	0.110	0.235	1	259 7x37	4699	6994	2.51	4800
250 MCM	627 19X33	0.120	0.250	1/0	266 19x14	5825	8670	2.57	5800
350 MCM	888 37x24	0.120	0.265	2/0	342 19x18	7414	11035	2.83	7900
500 MCM	1221 37x33	0.120	0.280	4/0	532 19x28	9602	14292	3.18	11400

Power Grounding Conductor Size	Power Conductor Resistance at 25°C	Grounding Conductor Resistance at 25°C	Inductance per unit length	Operating Capacitance per unit length	Permissible Short-Circuit Current ⁽²⁾ (1s)	Ampacity ⁽¹⁾ 40°C Ambient Temp.
AWG or MCM	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	μF/1000Ft	kA	A
6 AWG	0.436	1.109	0.132	0.08	1.90	93
4 AWG	0.274	0.697	0.119	0.09	3.03	122
2 AWG	0.172	0.436	0.112	0.10	4.80	159
1 AWG	0.137	0.349	0.108	0.11	6.06	184
1/0 AWG	0.109	0.274	0.105	0.12	7.65	211
2/0 AWG	0.0868	0.227	0.099	0.14	9.64	243
3/0 AWG	0.0688	0.172	0.098	0.14	12.15	279
4/0 AWG	0.0546	0.137	0.094	0.16	15.30	321
250 MCM	0.0466	0.109	0.089	0.18	18.16	355
350 MCM	0.0333	0.0868	0.085	0.21	25.31	435
500 MCM	0.0233	0.0546	0.082	0.24	36.18	536

(1) Ampacity- Free air measured; Based on continuous duty at 90°C conductor temperature (2) Short-circuit current (1s) – Based on conductor temperature from 90°C up to 250°C

SPECIAL FACTORY OPTIONS:

Jacket: Red, yellow, green, orange, blue

Jacket: TPU material available

FOM: Available in: 2x6G62.5/125, 12G62.5/125, 2x6G50/125, 12G50/125, 2x6E9/125, 12E9/125

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