casmocable
CABLES FOR EXTREMES

TYPE W MULTI-CONDUCTOR

-40°C to +90°C, 2000V



Construction
Conductor: Bare Copper · Extra-Flexible Stranded
Separator: PET tape over conductor
Core Insulation: Extruded · EPDM
Cabling: Laid Up
Core Identification: Color-coded per Color Code Chart
Filler: Cotton yarn (12–10 AWG); Rubber strip as required (≥ 8 AWG)
Binder: Non-woven tape
Jacket: Extruded · CPE

Thermal Characteristics
Operating Temperature: -40°C to +90°C
Wet & Dry Rating: 90°C continuous wet and dry
Oil Immersion Rating: 75°C (60 days immersion; ≥ 65% tensile and elongation retention)
Cold Bend: −40°C × 4 h, no cracking

Electrical Characteristics
Operating Voltage: 2000V
Spark Test Voltage: 10 kV (12–2 AWG); 13 kV (1–4/0 AWG); 15 kV (250–500 kcmil)
Dielectric Withstand Voltage (1 min): 3 kV (12–10 AWG); 4 kV (8–2 AWG); 5 kV (1–4/0 AWG); 6 kV (250–500 kcmil)

Application
Portable Tools and Industrial Equipment: For portable power tools, mobile machinery and temporary industrial power connections, subject to the applicable service cord rating and installation conditions.
Industrial Automation: For power, signal or control connections within industrial automation systems, as specified for the selected cable construction.
Heavy-Duty Temporary Power Distribution: For mobile generators, power feeders, stage and industrial distribution boxes, motor leads and rugged wet-location equipment connections rated up to 2000V AC.

General Characteristics
Oil Resistance: Resistant to oil exposure, helping maintain the integrity of the cable covering in oily environments.
Weather Resistance: Resistant to weathering, helping maintain cable integrity under exposure to sunlight, moisture and changing weather conditions.
Abrasion Resistance: Resistant to abrasion, helping protect the cable surface against wear caused by rubbing and handling.
Low-Temperature Flexibility: Maintains flexibility at low temperatures, facilitating cable routing and handling in cold environments.

Standards & Approvals
UL 1650: Constructed in accordance with UL 1650 Type W portable power cable requirements (2000 V AC, −40°C to +90°C wet and dry, Oil Resistant 75°C). Applicable certification documentation and jacket marking options confirmed upon order.
NEC Article 400: Extra-hard usage portable power cable for industrial, outdoor, and wet locations.

Fire Performance
Fire Retardant: FT1 / FT5

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RoHS COMPLIANT REACH COMPLIANT

2-Conductor (2C)

CASMO Part No.	Conductor				Insulation		Cable				Max. DCR @20°C (Ω/km)
	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Conductor Dia. (mm)	Nom. Ins. Thickness (mm)	Min. Ins. Thickness (mm)	Nom. Jkt. Thickness (mm)	Min. Jkt. Thickness (mm)	Nom. O.D. (mm)	O.D. Tolerance ± (mm)	
1114212C12	2×12	65	0.254	2.40	1.52	1.37	1.91	1.53	15.2	0.8	5.43
1114212C10	2×10	105	0.254	3.00	1.52	1.37	1.91	1.53	16.6	0.8	3.41
1114212C8	2×8	168	0.254	3.90	1.52	1.37	2.77	2.22	20.2	1.2	2.18
1114212C6	2×6	266	0.254	4.90	1.52	1.37	2.77	2.22	22.2	1.2	1.38
1114212C4	2×4	427	0.254	6.30	1.52	1.37	2.77	2.22	25.0	1.2	0.865
1114212C3	2×3	532	0.254	7.00	1.52	1.37	2.77	2.22	26.4	1.2	0.693
1114212C2	2×2	665	0.254	7.90	1.52	1.37	3.58	2.86	30.0	1.5	0.549
1114212C1	2×1	855	0.254	9.10	2.03	1.83	3.96	3.17	34.9	1.5	0.436
1114212C1_0	2×1/0	1045	0.254	10.20	2.03	1.83	3.96	3.17	36.8	1.5	0.345
1114212C2_0	2×2/0	1330	0.254	11.50	2.03	1.83	3.96	3.17	39.6	1.5	0.273
1114212C3_0	2×3/0	1672	0.254	12.80	2.03	1.83	3.96	3.17	41.9	2.0	0.217
1114212C4_0	2×4/0	2109	0.254	14.40	2.03	1.83	4.37	3.50	45.9	2.0	0.172
1114212C250MCM	2×250 kcmil	2516	0.254	15.60	2.41	2.17	4.83	3.86	50.8	2.5	0.147
1114212C350MCM	2×350 kcmil	3478	0.254	18.40	2.41	2.17	5.08	4.06	56.7	3.0	0.105

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TYPE W MULTI-CONDUCTOR

-40°C to +90°C, 2000V



2-Conductor (2C)

CASMO Part No.	Conductor				Insulation		Cable				Max. DCR @20°C (Ω/km)
	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Conductor Dia. (mm)	Nom. Ins. Thickness (mm)	Min. Ins. Thickness (mm)	Nom. Jkt. Thickness (mm)	Min. Jkt. Thickness (mm)	Nom. O.D. (mm)	O.D. Tolerance ± (mm)	
1114212C500MCM	2×500 kcmil	1225	0.511	21.90	2.41	2.17	5.08	4.06	63.6	3.0	0.0735

Table Notes

* Bare annealed copper stranding per ASTM B172: Class K for 12 AWG–350 kcmil and Class I for 500 kcmil. Standard outer jacket color is Black; core identification follows the Color Code Chart below.

† UL 1650 Type W Listing covers 8 AWG through 500 kcmil; 12 AWG and 10 AWG are constructed to equivalent Type W dimensional and performance guidelines.

3-Conductor (3C)

CASMO Part No.	Conductor				Insulation		Cable				Max. DCR @20°C (Ω/km)
	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Conductor Dia. (mm)	Nom. Ins. Thickness (mm)	Min. Ins. Thickness (mm)	Nom. Jkt. Thickness (mm)	Min. Jkt. Thickness (mm)	Nom. O.D. (mm)	O.D. Tolerance ± (mm)	
1114213C12	3×12	65	0.254	2.40	1.52	1.37	1.91	1.53	16.1	0.8	5.43
1114213C10	3×10	105	0.254	3.00	1.52	1.37	1.91	1.53	17.6	0.8	3.41
1114213C8	3×8	168	0.254	3.90	1.52	1.37	3.58	2.86	23.0	1.2	2.18
1114213C6	3×6	266	0.254	4.90	1.52	1.37	3.58	2.86	25.1	1.2	1.38
1114213C4	3×4	427	0.254	6.30	1.52	1.37	3.58	2.86	28.2	1.5	0.865
1114213C3	3×3	532	0.254	7.00	1.52	1.37	3.58	2.86	29.7	1.5	0.693
1114213C2	3×2	665	0.254	7.90	1.52	1.37	3.58	2.86	31.8	1.5	0.549

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-40°C to +90°C, 2000V



3-Conductor (3C)

CASMO Part No.	Conductor				Insulation		Cable				Max. DCR @20°C (Ω/km)
	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Conductor Dia. (mm)	Nom. Ins. Thickness (mm)	Min. Ins. Thickness (mm)	Nom. Jkt. Thickness (mm)	Min. Jkt. Thickness (mm)	Nom. O.D. (mm)	O.D. Tolerance ± (mm)	
1114213C1	3×1	855	0.254	9.10	2.03	1.83	3.58	2.86	36.2	1.5	0.436
1114213C1_0	3×1/0	1045	0.254	10.20	2.03	1.83	3.96	3.17	39.0	2.0	0.345
1114213C2_0	3×2/0	1330	0.254	11.50	2.03	1.83	3.96	3.17	42.0	2.0	0.273
1114213C3_0	3×3/0	1672	0.254	12.80	2.03	1.83	3.96	3.17	44.5	2.0	0.217
1114213C4_0	3×4/0	2109	0.254	14.40	2.03	1.83	4.37	3.50	48.7	2.0	0.172
1114213C250MCM	3×250 kcmil	2516	0.254	15.60	2.41	2.17	6.10	4.88	56.4	3.0	0.147
1114213C350MCM	3×350 kcmil	3478	0.254	18.40	2.41	2.17	6.10	4.88	62.3	3.0	0.105
1114213C500MCM	3×500 kcmil	1225	0.511	21.90	2.41	2.17	6.86	5.49	71.2	3.0	0.0735

Table Notes

* Bare annealed copper stranding per ASTM B172: Class K for 12 AWG–350 kcmil and Class I for 500 kcmil. Standard outer jacket color is Black; core identification follows the Color Code Chart below.

† UL 1650 Type W Listing covers 8 AWG through 500 kcmil; 12 AWG and 10 AWG are constructed to equivalent Type W dimensional and performance guidelines.

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TYPE W MULTI-CONDUCTOR

-40°C to +90°C, 2000V



4-Conductor (4C)

CASMO Part No.	Conductor				Insulation		Cable				Max. DCR @20°C (Ω/km)
	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Conductor Dia. (mm)	Nom. Ins. Thickness (mm)	Min. Ins. Thickness (mm)	Nom. Jkt. Thickness (mm)	Min. Jkt. Thickness (mm)	Nom. O.D. (mm)	O.D. Tolerance ± (mm)	
1114214C12	4×12	65	0.254	2.40	1.52	1.37	1.91	1.53	17.5	0.8	5.43
1114214C10	4×10	105	0.254	3.00	1.52	1.37	1.91	1.53	19.2	0.8	3.41
1114214C8	4×8	168	0.254	3.90	1.52	1.37	3.58	2.86	24.7	1.2	2.18
1114214C6	4×6	266	0.254	4.90	1.52	1.37	3.58	2.86	27.3	1.2	1.38
1114214C4	4×4	427	0.254	6.30	1.52	1.37	3.58	2.86	30.6	1.5	0.865
1114214C3	4×3	532	0.254	7.00	1.52	1.37	3.58	2.86	32.3	1.5	0.693
1114214C2	4×2	665	0.254	7.90	1.52	1.37	3.96	3.17	35.4	1.5	0.549
1114214C1	4×1	855	0.254	9.10	2.03	1.83	3.96	3.17	40.4	1.5	0.436
1114214C1_0	4×1/0	1045	0.254	10.20	2.03	1.83	3.96	3.17	42.7	2.0	0.345
1114214C2_0	4×2/0	1330	0.254	11.50	2.03	1.83	3.96	3.17	46.0	2.0	0.273
1114214C3_0	4×3/0	1672	0.254	12.80	2.03	1.83	3.96	3.17	48.9	2.0	0.217
1114214C4_0	4×4/0	2109	0.254	14.40	2.03	1.83	5.20	4.16	55.1	3.0	0.172
1114214C250MCM	4×250 kcmil	2516	0.254	15.60	2.41	2.17	6.86	5.49	63.2	3.0	0.147
1114214C350MCM	4×350 kcmil	3478	0.254	18.40	2.41	2.17	6.86	5.49	69.8	3.0	0.105
1114214C500MCM	4×500 kcmil	1225	0.511	21.90	2.41	2.17	7.87	6.30	80.1	4.0	0.0735

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TYPE W MULTI-CONDUCTOR

-40°C to +90°C, 2000V



4-Conductor (4C)

Table Notes

* Bare annealed copper stranding per ASTM B172: Class K for 12 AWG–350 kcmil and Class I for 500 kcmil. Standard outer jacket color is Black; core identification follows the Color Code Chart below.

† UL 1650 Type W Listing covers 8 AWG through 500 kcmil; 12 AWG and 10 AWG are constructed to equivalent Type W dimensional and performance guidelines.

5-Conductor (5C)

CASMO Part No.	Conductor				Insulation		Cable				Max. DCR @20°C (Ω/km)
	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Conductor Dia. (mm)	Nom. Ins. Thickness (mm)	Min. Ins. Thickness (mm)	Nom. Jkt. Thickness (mm)	Min. Jkt. Thickness (mm)	Nom. O.D. (mm)	O.D. Tolerance ± (mm)	
1114215C12	5×12	65	0.254	2.40	1.52	1.37	1.91	1.53	19.1	1.0	5.43
1114215C10	5×10	105	0.254	3.00	1.52	1.37	1.91	1.53	21.0	1.0	3.41
1114215C8	5×8	168	0.254	3.90	1.52	1.37	3.56	2.85	26.7	1.2	2.18
1114215C6	5×6	266	0.254	4.90	1.52	1.37	3.56	2.85	29.5	1.2	1.38
1114215C4	5×4	427	0.254	6.30	1.52	1.37	3.94	3.15	34.1	1.5	0.865
1114215C3	5×3	532	0.254	7.00	1.52	1.37	3.94	3.15	35.9	1.5	0.693
1114215C2	5×2	665	0.254	7.90	1.52	1.37	4.32	3.46	39.3	1.5	0.549
1114215C1	5×1	855	0.254	9.10	2.03	1.83	5.20	4.16	46.6	2.0	0.436
1114215C1_0	5×1/0	1045	0.254	10.20	2.03	1.83	5.20	4.16	49.3	2.0	0.345
1114215C2_0	5×2/0	1330	0.254	11.50	2.03	1.83	5.20	4.16	53.0	3.0	0.273
1114215C3_0	5×3/0	1672	0.254	12.80	2.03	1.83	5.20	4.16	56.1	3.0	0.217

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TYPE W MULTI-CONDUCTOR

-40°C to +90°C, 2000V



5-Conductor (5C)

CASMO Part No.	Conductor				Insulation		Cable				Max. DCR @20°C (Ω/km)
	Conductor Size (AWG)	No. Of Strands	Nom. Strand Dia. (mm)	Nom. Conductor Dia. (mm)	Nom. Ins. Thickness (mm)	Min. Ins. Thickness (mm)	Nom. Jkt. Thickness (mm)	Min. Jkt. Thickness (mm)	Nom. O.D. (mm)	O.D. Tolerance ± (mm)	
1114215C4_0	5×4/0	2109	0.254	14.40	2.03	1.83	5.59	4.47	61.2	3.0	0.172

Table Notes

* Bare annealed copper stranding per ASTM B172: Class K for 12 AWG–350 kcmil and Class I for 500 kcmil. Standard outer jacket color is Black; core identification follows the Color Code Chart below.

† UL 1650 Type W Listing covers 8 AWG through 500 kcmil; 12 AWG and 10 AWG are constructed to equivalent Type W dimensional and performance guidelines.

COLOR CODE CHART					
Cond. #	Color	Cond. #	Color	Cond. #	Color
2C	Black, White	4C	Black, White, Red, Green		
3C	Black, White, Green	5C	Black, White, Red, Orange, Green		

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