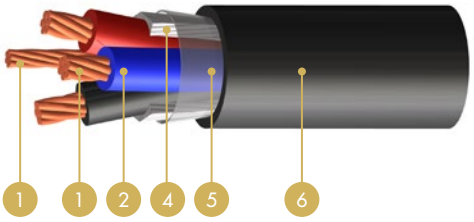
CSA TRAY

POWER CONTROL | MULTI-CONDUCTOR (1000V) PAGE 1 OF 2

Tray Power Control cables are suitable for use in ventilated, non-ventilated and ladder type cable trays, direct burial, raceways and for exposed or concealed wiring in wet, damp or dry locations in -40°C (40°F) environments. Applicable for use in Utilities, Industrial and Commercial applications.



1. Grounding/Bonding Conductor
2. Stranded Bare (ASTM B8) Annealed Copper Conductors
3. XLPE (RW90 Rated) Insulated Conductors
4. Polypropylene Fillers
5. Polyester Separator Tape
6. FR PVC Outer Protective Jacket

Voltage

1000V
Optional: 600/2000V

Product Construction

- Insulation:
  - XLPE (RW90 rated) rated: 90°C wet/105°C dry
- Shielding (foil-free edge):
  - OS (optional)
- Jacket:
  - FR PVC outer black jacket rated: 90°C to -40°C
- Available in:
  - Custom insulation/jacket colours
  - Composite constructions
  - Aluminum conductors

Certifications/Compliances

- CSA C22.2 NO. 230, Tray Cables (TC)
- CSA C22.2 NO. 239, Control & Instrumentation Cables (Type CIC)
- CSA C22.2 NO. 38, Thermoset Insulated Wires & Cables (XLPE)
- CSA FT4, UL 1685 FT4, Vertical Tray Flame Test rated
- IEEE 383 & 1202 (70,000 BTU/hr), Vertical Flame Test rated
- ICEA T-30-520 (70,000 BTU/hr), Vertical Flame Test rated
- XLPE (RW90 rated), 90°C wet/ 105°C dry
- UV sunlight resistant "SUN RES" (all colours)
- Direct burial rated
- -40°C cold bend/impact rated
- Rated for use in hazardous locations:
  - Class I Zone 0 (Intrinsically Safe cables only)
  - Class I Zone 2 (Div 2)

Colour Coding

- 2C – Black & white
- 3C – Black, red & white
- 4C – Black, red, blue & white
- 5C to 50C – Black # coded

Part Number	Number of Conductors	Conductor Size (AWG/MCM)	Ground Wire Size (AWG/MCM)	Nominal Diameter Overall Cable (in/mm)	Cable Weight (lbs/1000ft)/(kg/km)	Ampacity (30°C ambient)	Max. Pulling Tension (Pulling Eye) (lb/kg)	Min. Bend Radius (Pull) (in/mm)
4D010M140200000	2	14	14	0.432 / 10.97	97 / 144	25	66 / 30	3.9 / 99
4S010M120200000	2	12	14	0.468 / 11.89	120 / 179	20	104 / 47	4.2 / 107
4S010M100200000	2	10	12	0.518 / 13.16	162 / 241	30	166 / 75	4.7 / 118
4D010M080200000	2	8	10	0.606 / 15.39	245 / 364	55	265 / 120	5.5 / 139
4D010M060200000	2	6	8	0.744 / 18.9	371 / 552	75	419 / 190	6.7 / 170
4D010M040200000	2	4	8	0.838 / 21.29	502 / 747	95	668 / 303	7.5 / 192
4D010M030200000	2	3	6	0.932 / 23.67	654 / 973	115	842 / 382	8.4 / 213
4D010M020200000	2	2	6	0.994 / 25.25	763 / 1135	130	1062 / 482	8.9 / 227
4D010M010240000	2	1	6	1.152 / 29.26	959 / 1427	145	1339 / 607	10.4 / 263
4D010M1/0240000	2	1/0	6	1.232 / 31.29	1120 / 1667	170	1690 / 766	11.1 / 282
4D010M2/0240000	2	2/0	6	1.318 / 33.48	1338 / 1992	195	2130 / 966	11.9 / 301
4D010M3/0240000	2	3/0	4	1.42 / 36.07	1648 / 2452	225	2671 / 1212	12.8 / 325
4D010M4/0240000	2	4/0	4	1.532 / 38.91	1987 / 2957	260	3386 / 1536	13.8 / 350
4D010M250260000	2	250	4	1.664 / 42.27	2290 / 3408	290	4000 / 1814	15 / 380
4D010M300260000	2	300	4	1.83 / 46.48	2762 / 4110	320	4800 / 2177	16.5 / 418
4D010M350260000	2	350	3	1.93 / 49.02	3175 / 4725	350	5600 / 2540	17.4 / 441
4D010M500260000	2	500	3	2.186 / 55.52	4284 / 6375	430	8000 / 3629	19.7 / 500
4D010M750260000	2	750	2	2.544 / 64.62	6150 / 9152	535	12000 / 5443	22.9 / 582

*Ampacity value based on Canadian Electrical Code, Version 2012, Table-2. Values are corrected according to Table-5C for number of Conductors.

Please note: Although the content used for this brochure has been produced and processed from sources believed to be reliable, no warranty, expressed or implied, is made regarding accuracy, adequacy, completeness, legality, reliability or usefulness of any information

CSA TRAY

POWER CONTROL | MULTI-CONDUCTOR (1000V) PAGE 2 OF 2

Part Number	Number of Conductors	Conductor Size (AWG/MCM)	Ground Wire Size (AWG/MCM)	Nominal Diameter Overall Cable (in/mm)	Cable Weight (lbs/1000ft)/(kg/km)	Ampacity (30°C ambient)	Max. Pulling Tension (Pulling Eye) (lb/kg)	Min. Bend Radius (Pull) (in/mm)
4D010M140300000	3	14	14	0.47 / 11.93	119 / 177	25	99 / 45	4.2 / 107
4S010M120300000	3	12	14	0.51 / 12.95	152 / 226	20	157 / 71	4.6 / 117
4S010M100300000	3	10	12	0.595 / 15.12	223 / 332	30	249 / 113	5.4 / 136
4D010M080300000	3	8	10	0.66 / 16.76	313 / 466	55	397 / 180	5.9 / 151
4D010M060300000	3	6	8	0.813 / 20.66	481 / 716	75	629 / 285	7.3 / 186
4D010M040300000	3	4	8	0.93 / 23.63	693 / 1032	95	1002 / 454	8.4 / 213
4D010M030300000	3	3	6	0.988 / 25.11	845 / 1258	115	1263 / 573	8.9 / 226
4D010M020300000	3	2	6	1.055 / 26.8	1005 / 1496	130	1593 / 723	9.5 / 241
4D010M010340000	3	1	6	1.225 / 31.11	1264 / 1882	145	2009 / 911	11 / 280
4D010M1/0340000	3	1/0	6	1.311 / 33.3	1498 / 2230	170	2534 / 1150	11.8 / 300
4D010M2/0340000	3	2/0	6	1.403 / 35.65	1802 / 2681	195	3194 / 1449	12.6 / 321
4D010M3/0340000	3	3/0	4	1.513 / 38.43	2239 / 3333	225	4007 / 1818	13.6 / 346
4D010M4/0340000	3	4/0	4	1.633 / 41.49	2727 / 4058	260	5078 / 2304	14.7 / 373
4D010M250360000	3	250	4	1.835 / 46.62	3238 / 4818	290	6000 / 2722	16.5 / 420
4D010M300360000	3	300	4	1.949 / 49.51	3775 / 5618	320	7200 / 3266	17.5 / 446
4D010M350360000	3	350	3	2.057 / 52.24	4355 / 6481	350	8400 / 3810	18.5 / 470
4D010M500360000	3	500	3	2.332 / 59.23	5940 / 8839	430	12000 / 5443	21 / 533
4D010M750360000	3	750	3	2.717 / 69.01	8586 / 12778	535	18000 / 8165	24.5 / 621
4D010M140400000	4	14	14	0.51 / 12.96	143 / 213	20	132 / 60	4.6 / 117
4S010M120400000	4	12	14	0.585 / 14.86	202 / 301	16	209 / 95	5.3 / 134
4S010M100400000	4	10	12	0.647 / 16.43	274 / 407	24	332 / 151	5.8 / 148
4D010M080400000	4	8	10	0.719 / 18.26	386 / 574	44	529 / 240	6.5 / 164
4D010M060400000	4	6	8	0.929 / 23.59	631 / 939	60	839 / 380	8.4 / 212
4D010M040400000	4	4	8	1.045 / 26.56	872 / 1298	76	1336 / 606	9.4 / 239
4D010M030400000	4	3	6	1.112 / 28.26	1069 / 1590	92	1684 / 764	10 / 254
4D010M020400000	4	2	6	1.189 / 30.21	1280 / 1904	104	2124 / 964	10.7 / 272
4D010M010440000	4	1	6	1.351 / 34.32	1614 / 2402	116	2678 / 1215	12.2 / 309
4D010M1/0440000	4	1/0	6	1.448 / 36.77	1911 / 2844	136	3379 / 1533	13 / 331
4D010M2/0440000	4	2/0	6	1.551 / 39.4	2339 / 3481	156	4259 / 1932	14 / 355
4D010M3/0440000	4	3/0	4	1.674 / 42.52	2877 / 4282	180	5343 / 2423	15.1 / 383
4D010M4/0440000	4	4/0	4	1.869 / 47.48	3632 / 5405	208	6771 / 3071	16.8 / 427
4D010M250460000	4	250	4	2.028 / 51.52	4174 / 6212	232	8000 / 3629	18.3 / 464
4D010M300460000	4	300	4	2.156 / 54.76	4899 / 7290	256	9600 / 4355	19.4 / 493
4D010M350460000	4	350	3	2.276 / 57.82	5627 / 8374	280	11200 / 5080	20.5 / 520
4D010M500460000	4	500	3	2.585 / 65.66	7737 / 11514	344	16000 / 7258	23.3 / 591
4D010M750460000	4	750	2	3.076 / 78.14	11373 / 16925	428	24000 / 10886	27.7 / 703

*Ampacity value based on Canadian Electrical Code, Version 2012, Table-2. Values are corrected according to Table-5C for number of Conductors.

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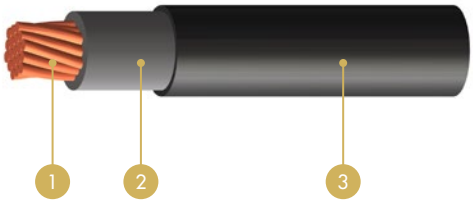
CSA TRAY

POWER CONTROL | SINGLE CONDUCTOR (1000V) PAGE 1 OF 1

Tray Power Control cables are suitable for use in ventilated, non-ventilated and ladder type cable trays, direct burial, raceways and for exposed or concealed wiring in wet, damp or dry locations in -40°C (40°F) environments. Applicable for use in Utilities, Industrial and Commercial applications.



1. Strand Bare (ASTM B8) Annealed Copper Conductors
2. XLPE (RW90 Rated) Insulated Conductor
3. FR PVC Outer Protective Jacket

Voltage

1000V
Optional: 600V/2000V

Product Construction

- Insulation:
  - XLPE (RW90 rated) rated: 90°C wet/dry
- Shielding (foil-free edge):
  - OS (optional)
- Jacket:
  - FR PVC outer black jacket rated: 90°C to -40°C
- Available in:
  - Custom insulation/jacket colours
  - Composite constructions
  - Aluminum conductors

Certifications/Compliances

- CSA C22.2 NO. 230, Tray Cables (TC)
- CSA C22.2 NO. 239, Control & Instrumentation Cables (Type CIC)
- CSA C22.2 NO. 38, Thermoset Insulated Wires & Cables (XLPE)
- CSA FT4, UL 1685 FT4, Vertical Tray Flame Test rated
- IEEE 383 & 1202 (70,000 BTU/hr), Vertical Flame Test rated
- ICEA T-30-520 (70,000 BTU/hr), Vertical Flame Test rated
- XLPE (RW90 rated), 90°C wet/ 105°C dry
- UV sunlight resistant "SUN RES" (all colours)
- Direct burial rated
- -40°C cold bend/impact rated
- Rated for use in hazardous locations:
  - Class I Zone 0 (Intrinsically Safe cables only)
  - Class I Zone 2 (Div 2)

Colour Coding

- Black conductor (standard)

Part Number	Number of Conductors	Conductor Size (AWG/MCM)	Nominal Diameter Overall Cable (in/mm)	Cable Weight (lbs/1000ft)/(kg/km)	Ampacity (30°C ambient)	Max. Pulling Tension (Pulling Eye) (lb/kg)	Min. Bend Radius (Pull) (in/mm)
4D010M1/0140000	1	1/0	0.628 / 15.95	443 / 659	260	845 / 383	5.7 / 144
4D010M2/0140000	1	2/0	0.671 / 17.04	539 / 803	300	1065 / 483	6 / 153
4D010M3/0140000	1	3/0	0.722 / 18.34	661 / 984	350	1336 / 606	6.5 / 165
4D010M4/0140000	1	4/0	0.778 / 19.76	812 / 1209	405	1693 / 768	7 / 178
4D010M250160000	1	250	0.884 / 22.45	975 / 1450	455	2000 / 907	8 / 202
4D010M300160000	1	300	0.937 / 23.8	1145 / 1704	500	2400 / 1089	8.4 / 214
4D010M350160000	1	350	0.987 / 25.07	1316 / 1958	570	2800 / 1270	8.9 / 226
4D010M500160000	1	500	1.115 / 28.32	1819 / 2707	700	4000 / 1814	10 / 255
4D010M750160000	1	750	1.294 / 32.87	2650 / 3944	885	6000 / 2722	11.6 / 296
4D010MA00160000	1	1000	1.443 / 36.65	3459 / 5147	1055	8000 / 3629	13 / 330

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