

1 kV Single Conductor



Product Description

XLP insulation
Inner and outer PVC jackets
Aluminum interlocked armor

Applications

For exposed or concealed wiring in wet or dry locations. For use in ventilated, non-ventilated and ladder type cable troughs and ventilated flexible cableway in wet or dry locations. For direct earth burial.

Specifications

- CONDUCTOR: Class B stranded, bare, soft copper, for single conductor cables the minimum size is AWG #6
- INSULATION: Cross-Linked Polyethylene (XLP) Type RW-90 per CSA C22.2, No. 131
- GROUNDING CONDUCTOR: Composed of individual wires applied helically over the insulation
- INNER JACKET: Polyvinyl Chloride (PVC)
- ARMOR: Aluminum interlocking armor (for single conductor cables for use in AC circuits aluminum armor only is provided and non-magnetic [aluminum] connectors and locknuts must be used)
- OUTER JACKET: Polyvinyl Chloride (PVC) heat-, flame- and moisture-resistant jacket, rated -40°C, the standard color is black but colored jackets will be provided on request
- STANDARDS: The cable is certified to CSA C22.2 No. 131 Type Teck 90 and No. 174 for use in CSA Class 1, Division 1, hazardous locations (CSA HL rated) and passes the FT4 vertical tray flame test
- AMPACITY: Based on 90°C column of Table 1 of the 2009 Canadian Electric Code, allowable ampacities for single copper conductors in free air based on 30°C ambient temperature
- TEMPERATURE: -40°C to 90°C
- VOLTAGE: 1 kV

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Diameters and weights may vary among manufacturers.

Part No.	Conductor Size AWG	Ground Wire Size AWG	Nom. Diameter Inner Jacket (in.)	Nom. Diameter Armor (in.)	Nom. Diameter Outer Jacket (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
7TI-0601AJ	6	8	0.47	0.67	0.77	340	100
7TI-0401AJ	4	6	0.52	0.72	0.82	410	135
7TI-0301AJ	3	6	0.55	0.75	0.85	490	155
7TI-0201AJ	2	6	0.58	0.78	0.88	540	180
7TI-0101AJ	1	4	0.68	0.88	0.99	660	210
7TI-1011AJ	1/0	4	0.72	0.92	1.03	750	245
7TI-2021AJ	2/0	4	0.77	0.97	1.08	890	285
7TI-3031AJ	3/0	3	0.82	1.02	1.13	1,080	330
7TI-4041AJ	4/0	3	0.88	1.08	1.19	1,240	385
7TI-2501AJ	250	2	1.00	1.12	1.31	1,450	425
7TI-3001AJ	300	2	1.05	1.25	1.36	1,640	480
7TI-3501AJ	350	1	1.10	1.30	1.41	1,820	530
7TI-4001AJ	400	1	1.15	1.35	1.46	2,010	575
7TI-5001AJ	500	1/0	1.25	1.45	1.58	2,370	660
7TI-6001AJ	600	1/0	1.34	1.54	1.66	2,840	740
7TI-7501AJ	750	2/0	1.44	1.64	1.77	3,380	845
7TI-10001AJ	1000	2/0	1.59	1.84	1.97	4,300	1000
7TI-12501AJ	1250	3/0	1.84	2.10	2.24	5,600	1130
7TI-15001AJ	1500	4/0	2.02	2.26	2.40	6,600	1260
7TI-17501AJ	1750	4/0	2.12	2.38	2.54	7,500	1370
7TI-20001AJ	2000	4/0	2.22	2.48	2.64	8,400	1470

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