

ACWU90 Armored Aluminum



Application:

Suitable for open and concealed wiring in dry, damp, or wet locations, including underground installations. Approved for direct burial in accordance with CSA C22.1:24 (CEC) Rule 12-602 and Table 19. May be installed in cable troughs, ventilated flexible cableways, or embedded in masonry or concrete. Minimum recommended installation temperature: -40 °C (with suitable handling procedures). Maximum conductor temperature: 90 °C. Approved for use with ceiling fixtures. Armoured cable for commercial, industrial, and multi-residential applications.

Structure:

1. Conductor: Aluminum conductors (aluminum alloy 8000 series) with one bare grounding wire
2. Insulation: Cross-linked polyethylene insulation (RW90 XLPE)
3. Assemble wrap: Conductor assembly paper wrapped
4. Armor: Aluminum interlocked Armor (AIA)
5. Outer Jacket: Sunlight Resistant PVC, Black

Standard: CSA Standard C22.2 No. 51-20

Voltage: 600V

Working temperature: Rated at 90°C wet or dry

Performance: Flame test compliances: FT4

TECHNICAL DATA:

No of Phase	Size (AWG or kcmil)	Insulation thickness (mm)	Bonding Wire Size (AWG)	PVC Jacket (mm)	Approximate Total Diameter (mm)	Approximate Net Cable Weight (kg/km)
3	6	1.14	8	1.27	23.3	503
3	4	1.14	6	1.27	25.9	631
3	2	1.14	6	1.27	29.8	804
3	1	1.4	4	1.27	33.1	979
3	1/0	1.4	4	1.27	35.1	1111
3	2/0	1.4	4	1.27	37.3	1269
3	3/0	1.4	4	1.27	39.4	1463
3	4/0	1.4	4	1.27	43.5	1759
3	250	1.65	2	1.52	47.1	2065
3	300	1.65	2	1.52	50.4	2334
3	350	1.65	2	1.52	53.6	2698
3	400	1.65	2	1.52	55.8	2962
3	500	1.65	1	1.52	61.4	3672
4	6	1.14	8	1.27	25.4	590
4	4	1.14	6	1.27	29.4	763
4	2	1.14	6	1.27	32.8	969
4	1	1.4	4	1.27	36.6	1187
4	1/0	1.4	4	1.27	38.8	1355
4	2/0	1.4	4	1.27	41.7	1608
4	3/0	1.4	4	1.27	44	1854
4	4/0	1.4	4	1.27	47.6	2173
4	250	1.65	2	1.52	53.2	2997
4	300	1.65	2	1.52	55.2	3356
4	350	1.65	2	1.52	58.7	4585
4	500	1.65	1	1.52	67.4	763
4	600	2.03	1	1.9	73.5	5334