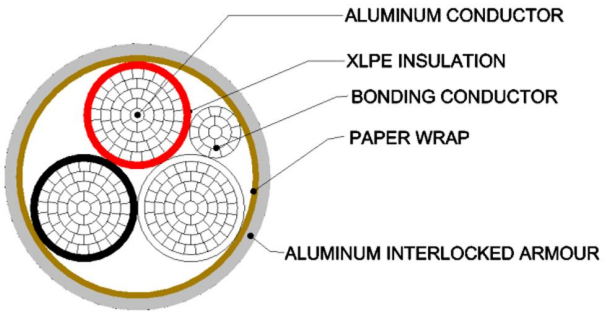
SOUTH CABLE

AC90 - ALUMINUM CONDUCTOR





APPLICATION

AC90 armoured building wire is rated FT4-ST1 for -40°C to 90°C. Engineered specifically for demanding environments, superior flammability and smoke emission performance.

For use in ventilated, non-ventilated and ladder-type cable trays.

For dry locations, in ceiling air-handling plenums, exposed or concealed wiring and service entrance above ground.

CHARACTERISTICS

Voltage Rating Uo/U (Um)
600V

Temperature Rating
-40°C to 90°C

STANDARDS

Industry compliances: CSA Standard C22.2 No. 51, No.38 and No.2256, RoHS

Flame test compliances: CSA ST1 and FT4

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

South Cable actively implements the ‘carbon reduction’ goal, strives to promote the green’s low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company’s healthy and sustainable development.

CONSTRUCTION

Conductor
Stranded AA-8000 Series Aluminum Alloy (ACM)

Insulation
Cross-linked Polyethylene (XLPE) CSA Type XL 90°C dry/wet 600V Halogen-Free.

Bonding Conductor
Stranded AA-8000 Series Aluminum Alloy (ACM)

Armour
Aluminum (AlA) or Galvanized Steel (StA) Interlock Armour

Sheath Colour
- 3Core: Black, White, Red
- 4Core: Black, White, Red and Blue

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AC90 600V - 3 Aluminum Conductors

Conductor size	Ground size	Insulation thickness	Cable diameter	Cable weight	Max. pulling tension	Min. bend radius	Ampacity (A)
6 AWG	8 AWG	0.045 in	0.800 in	243 lbs/Mft	526 lbs	11.2 in	55
		1.14 mm	20.3 mm	361 kg/km	239 kg	285 mm	
4 AWG	6 AWG	0.045 in	0.880 in	286 lbs/Mft	832 lbs	12.3 in	75
		1.14 mm	22.4 mm	426 kg/km	377 kg	313 mm	
2 AWG	6 AWG	0.045 in	1.030 in	392 lbs/Mft	1322 lbs	14.4 in	100
		1.14 mm	26.2 mm	583 kg/km	600 kg	366 mm	
1 AWG	4 AWG	0.055 in	1.160 in	477 lbs/Mft	1653 lbs	16.2 in	115
		1.40 mm	29.5 mm	710 kg/km	750 kg	413 mm	
1/0 AWG	4 AWG	0.055 in	1.250 in	622 lbs/Mft	2081 lbs	17.5 in	135
		1.40 mm	31.8 mm	925 kg/km	944 kg	445 mm	
2/0 AWG	4 AWG	0.055 in	1.320 in	738 lbs/Mft	2696 lbs	18.5 in	150
		1.40 mm	33.5 mm	1099 kg/km	1223 kg	469 mm	
3/0 AWG	4 AWG	0.055 in	1.420 in	843 lbs/Mft	3375 lbs	19.9 in	175
		1.40 mm	36.1 mm	1254 kg/km	1531 kg	505 mm	
4/0 AWG	4 AWG	0.055 in	1.530 in	994 lbs/Mft	4199 lbs	21.4 in	205
		1.40 mm	38.9 mm	1479 kg/km	1905 kg	544 mm	

AC90 600V - 3 Aluminum Conductors (continued)

Conductor size	Ground size	Insulation thickness	Cable diameter	Cable weight	Max. pulling tension	Min. bend radius	Ampacity (A)
250 kcmil	2 AWG	0.065 in	1.641 in	1203 lbs/Mft	5152 lbs	23.0 in	230
		1.65 mm	41.7 mm	1791 kg/km	2337 kg	584 mm	
300 kcmil	2 AWG	0.065 in	1.828 in	1355 lbs/Mft	5807 lbs	25.6 in	260
		1.65 mm	46.4 mm	2017 kg/km	2634 kg	650 mm	
350 kcmil	2 AWG	0.065 in	1.843 in	1546 lbs/Mft	7396 lbs	25.8 in	280
		1.65 mm	46.8 mm	2301 kg/km	3355 kg	655 mm	
400 kcmil	2 AWG	0.065 in	1.991 in	1713 lbs/Mft	7960 lbs	27.9 in	305
		1.65 mm	50.6 mm	2549 kg/km	3611 kg	708 mm	
500 kcmil	1 AWG	0.080 in	2.155 in	2112 lbs/Mft	9804 lbs	30.2 in	350
		2.03 mm	54.7 mm	3143 kg/km	4447 kg	766 mm	
600 kcmil	1 AWG	0.080 in	2.320 in	2447 lbs/Mft	12103 lbs	32.5 in	385
		2.03 mm	59 mm	3642 kg/km	5490 kg	825 mm	
750 kcmil	1/0 AWG	0.080 in	2.523 in	2934 lbs/Mft	15568 lbs	35.3 in	435
		2.03 mm	64.1 mm	4367 kg/km	7062 kg	897 mm	

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AC90 600V - 4 Aluminum Conductors

Conductor size	Ground size	Insulation thickness	Cable diameter	Cable weight	Max. pulling tension	Min. bend radius	Ampacity (A)
4 AWG	6 AWG	0.045 in	0.937 in	405 lbs/Mft	1109 lbs	13.1 in	60
		1.14 mm	23.9 mm	603 kg/km	503 kg	333 mm	
2 AWG	6 AWG	0.045 in	1.070 in	472 lbs/Mft	1763 lbs	15.0 in	80
		1.14 mm	27.2 mm	702 kg/km	799 kg	381 mm	
1 AWG	4 AWG	0.055 in	1.260 in	591 lbs/Mft	2203 lbs	17.6 in	92
		1.40 mm	32.0 mm	879 kg/km	999 kg	448 mm	

Derating factor (ground): 1 (Soil thermal resistivity: 1km/W, Depth 0.8m, Flat formation - touching)
Derating factor (air): 1 (Flat formation - touching)

SOUTH CABLE

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.

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