



AC90 & ISO-AC90 600V CSA FT4-ST1 LSZH

AC90	Part No.	Power Conductor		Ground Conductor	Insulation Thickness		Armour O.D.		Cable Weight		Max Pulling Tension		Min Bend Radius		Ampacity
		Count	AWG	AWG	in	mm	in	mm	lbs/Mft	kg/km	lbs	kg	in	mm	A
8021402	2	14	14	0.030	0.76	0.430	10.9	81	120	66	30	6.0	151	25	
8021202	2	12	14	0.030	0.76	0.454	11.5	99	148	104	47	6.4	164	30	
8021002	2	10	12	0.030	0.76	0.512	13.0	138	206	166	75	6.9	174	40	
8021403	3	14	14	0.030	0.76	0.445	11.3	105	156	99	45	6.2	158	25	
8021203	3	12	14	0.030	0.76	0.490	12.4	130	193	157	71	6.9	174	30	
8021003	3	10	12	0.030	0.76	0.535	13.6	182	271	249	113	7.5	190	40	
8030803	3	8/7	10	0.045	1.14	0.714	18.1	309	460	418	190	10.0	254	55	
8030603	3	6/7	8/7	0.045	1.14	0.770	19.6	417	621	702	318	10.8	274	75	
8030403	3	4/7	8/7	0.045	1.14	0.940	23.9	601	894	1193	541	13.2	334	95	
8030303	3	3/7	6/7	0.045	1.14	0.990	25.1	721	1073	1622	736	13.9	352	115	
8030203	3	2/7	6/7	0.045	1.14	1.040	26.4	891	1326	1922	872	14.6	370	130	
8021404	4	14	14	0.030	0.76	0.490	12.4	130	193	131	60	6.9	174	20	
8021204	4	12	14	0.030	0.76	0.535	13.6	166	247	209	95	7.5	190	24	
8021004	4	10	12	0.030	0.76	0.630	16.0	232	345	332	150	8.8	224	32	

ISO-AC90	Part No.	Conductor Count	Power Conductor	Ins. Ground Conductor	Ground Conductor	Insulation Thickness		Armour O.D.		Cable Weight		Max Pulling Tension		Min Bend Radius		Ampacity
			AWG	AWG	AWG	in	mm	in	mm	lbs/Mft	kg/km	lbs	kg	in	mm	A
8001402	2	14	14	14	0.030	0.76	0.440	11.2	105	156	66	30	6.2	157	25	
8001202	2	12	12	14	0.030	0.76	0.485	12.3	138	206	104	47	6.8	173	30	
8001002	2	10	10	12	0.030	0.76	0.533	13.5	186	277	166	75	7.5	190	40	
8001203	3	12	12	14	0.030	0.76	0.535	13.6	165	245	157	71	7.5	190	24	
8001003	3	10	10	12	0.030	0.76	0.591	15.0	232	346	249	113	8.3	210	32	

Ampacity values based on CE Code Part I 2024, Table 2. Correction factors may apply. Dimensions and weights are nominal and subject to change without notice.

Manufactured, tested and certified in Canada, Electro-Power®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.

Specifications and Compliances

- CSA C22.2 No. 51, Armoured Cables (Type AC90)
- CSA C22.2 No. 38 Thermoset-insulated wires and cables (Type RW90)
- CSA C22.2 No. 2556 FT4-ST1/UL 1685 Vertical-Tray Flame Test
- IEEE 383 & 1202, ICEA T-30-520 (70,000 BTU/hr) Vertical Flame Test rated
- -40°C Cold Bend and -40°C Cold Impact
- Limited Smoke and Halogen Free

Conductor Solid Soft Copper, ASTM B3

8-2 AWG - Stranded Soft Copper, ASTM B8

Insulation Cross-linked Polyethylene (XLPE) CSA Type XL

90°C dry/wet 600V Halogen-Free

Bonding

Solid ASTM B3 or Stranded ASTM B8 Soft Bare Copper, ISO - Insulated Copper (Green)

Armour

Aluminum (AIA) or Galvanized Steel (SIA) Interlock Armour

Colour Code

Black, White, Red, Blue – Pairs are Black and White

Applications

- 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.
- ISO-AC90 is also recommended for single-phase isolated wiring systems, refer to CE Code Part I 2024 Rules 24-102 and 24-104.

