



3 Conductor RW90 1000V CSA FT4-ST1 TC-ER

3C	Part No.	Power Conductor	Bonding Conductor	Insulation Thickness		Jacket Thickness		Cable O.D.		Cable Weight		Max Pulling Tension		Min Bend Radius		Ampacity
		AWG/kcmil	AWG	in	mm	in	mm	in	mm	lbs/Mft	kg/km	lbs	kg	in	mm	A
	8211403BBG-ST1	14	14	0.045	1.1	0.060	1.5	0.461	11.7	130	193	102	46	4.1	105	25
	8211203BBG-ST1	12	12	0.045	1.1	0.060	1.5	0.505	12.8	170	253	156	71	4.5	115	30
	8211003BBG-ST1	10	10	0.045	1.1	0.080	2.0	0.587	14.9	250	372	249	113	5.3	134	40
	8210803BBG-ST1	8	10	0.045	1.1	0.060	1.5	0.630	16.0	339	504	454	206	5.7	144	55
	8210603BBG-ST1	6	8	0.060	1.5	0.060	1.5	0.773	19.6	484	720	629	286	7.0	177	75
	8210403BBG-ST1	4	8	0.060	1.5	0.080	2.0	0.933	23.7	703	1047	1001	455	8.4	213	95
	8210303BBG-ST1	3	6	0.060	1.5	0.080	2.0	1.000	25.4	856	1275	1263	574	9.0	229	115
	8210203BBG-ST1	2	6	0.060	1.5	0.080	2.0	1.067	27.1	1008	1500	1594	724	9.6	244	130
	8210103BBG-ST1	1	6	0.080	2.0	0.080	2.0	1.200	30.5	1259	1874	2010	914	10.8	274	145
	82101/003BBG-ST1	1/0	6	0.080	2.0	0.080	2.0	1.275	32.4	1513	2252	2531	1150	11.5	291	170
	82102/003BBG-ST1	2/0	6	0.080	2.0	0.080	2.0	1.359	34.5	1790	2664	3195	1452	12.2	311	195
	82103/003BBG-ST1	3/0	4	0.080	2.0	0.080	2.0	1.457	37.0	2214	3295	4029	1831	13.1	333	225
	82104/003BBG-ST1	4/0	4	0.080	2.0	0.080	2.0	1.599	40.6	2684	3994	5075	2307	14.4	365	260
	82125003BBG-ST1	250	4	0.090	2.3	0.110	2.8	1.820	46.2	3318	4938	6000	2727	16.4	416	290
	82130003BBG-ST1	300	4	0.090	2.3	0.110	2.8	1.936	49.2	3860	5745	7193	3269	17.4	443	320
	82135003BBG-ST1	350	3	0.090	2.3	0.110	2.8	2.071	52.6	4456	6631	8407	3821	18.6	473	350
	82140003BBG-ST1	400	3	0.090	2.3	0.110	2.8	2.125	54.0	4972	7399	9605	4366	19.1	486	380
	82150003BBG-ST1	500	2	0.090	2.3	0.110	2.8	2.327	59.1	6089	9062	11990	5450	20.9	532	430
	82160003BBG-ST1	600	2	0.090	2.3	0.110	2.8	2.415	61.3	7122	10599	14407	6548	21.7	552	475
	82175003BBG-ST1	750	2	0.090	2.3	0.140	3.6	2.873	73.0	8949	13318	18005	8184	25.9	657	535

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.

Specifications and Compliances

- CSA C22.2 No. 38, Thermoset-insulated wires and cables (Type RW90)
- CSA C22.2 No. 230, Tray Cables Exposed Run (Type TC-ER)
- 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
- NFPA 130 Smoke and Flame requirements.
- -40°C Cold Bend and -40°C Cold Impact
- Sunlight Resistant, Direct Burial, Low Acid Gas (AG14), Halogen-Free

Conductor Stranded Soft Copper, ASTM B8
Insulation Cross-linked Polyethylene (XLPE)
 CSA Type XL 105°C dry, 90°C wet 1000V,
 Halogen-Free

Bonding Stranded Soft Copper, ASTM B8, XLPE Insulated (Green)
Jacket Thermoplastic Low Smoke Zero Halogen
Colour Code Black, Red & Blue or Black with White Numbers

Applications

- For use in raceways, ventilated, non-ventilated and ladder-type cable trays.
- For dry, damp or wet locations, in ceiling air-handling plenums, direct burial, exposed and concealed wiring.
- For use in Hazardous locations: Zone 0 (intrinsically safe cables only), Zone 2, Zone 22 (per Section 18).
- Cables marked TC-ER tray cable are permitted for exposed runs as per CE Code Part I 12-2202 3) and 4).

