



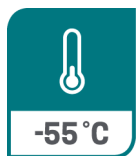
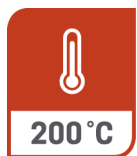
EXRAD[®] S200XL

Thin Wall

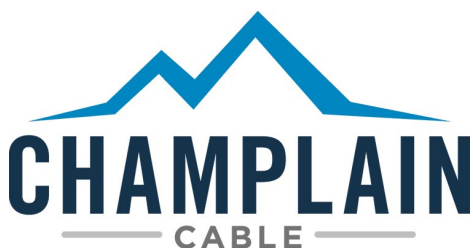
High Voltage Cable

1000VAC/1500VDC, ISO-19642-5, Class F, Thin Wall

- Revolutionary EXTRAD[®] S200XL Irradiation Crosslinked Fluoroelastomer (XLFE)
- Tougher than Silicone and EPDM
- Ultimate Flexibility, Thin, Fluid Resistant and Tough
- Performs at Higher Temperatures for Longer Periods of Time
- Ideal for High Power and Long Life Applications
- High Current Carrying Capacity



- Sizes from 3.0mm² to 150mm². Larger sizes up to 250mm² also available.
- 3,000 hours rated at 200°C
- 1000 VAC and 1500 VDC Rated
- Flexible and Standard Conductor Stranding available.
- UV Resistant
- Excellent Cut-through Resistance





EXRAD® S200XL

Thin Wall

High Voltage Cable

Preferred, ISO Flexible Conductor

Part Number	Bare Copper Conductors	Conductor Diameter mm / nom	Insulation Thickness mm / nom	Finished Diameter mm / nom	Min Static Bend Radius mm	Finished Weight kg/KM nom	Maximum Conductor Resistance 20°C mΩ per M
15-09088	3mm ² (161/0.15)	2.26	0.48	3.23	10	35	6.15
15-09089	4mm ² (224/0.15)	2.74	0.41	3.56	11	48	4.71
15-09102	5mm ² (245/0.15)	2.79	0.63	4.05	12	53	3.94
15-09103	6mm ² (182/0.20)	3.20	0.48	4.17	13	64	3.14
15-09090	8mm ² (238/0.20)	3.61	0.59	4.80	14	76	2.38
15-09091	10mm ² (322/0.20)	4.24	0.76	5.77	17	112	1.82
15-09092	12mm ² (380/0.20)	4.83	0.74	6.30	19	137	1.52
15-09080	16mm ² (511/0.20)	5.38	0.69	6.60	20	165	1.16
15-09093	20mm ² (610/0.20)	6.02	0.69	7.39	22	198	0.955
15-09094	25mm ² (798/0.20)	6.86	0.72	8.31	25	260	0.743
15-09095	30mm ² (912/0.20)	7.06	1.07	9.19	28	307	0.647
15-08885	35mm ² 1083/0.20)	7.49	1.02	9.90	30	370	0.527
15-09096	40mm ² (1235/0.20)	8.48	1.02	10.52	32	397	0.473
15-08886	50mm ² (1615/0.20)	9.65	0.98	11.61	35	499	0.368
15-09097	60mm ² (1843/0.20)	10.34	1.16	12.65	38	590	0.315
15-09101	70mm ² (2128/0.20)	11.76	1.13	14.02	42	720	0.259
15-09098	85mm ² (2660/0.20)	12.95	1.14	15.24	46	839	0.219
15-08904	95mm ² (2926/0.20)	14.05	1.02	16.00	48	952	0.196
15-09099	120mm ² (3885/0.20)*	14.45	1.78	18.16	54	1,363	0.153
15-09100	150mm ² (4788/0.20) *	17.53	1.98	21.46	64	1,754	0.120

Optional, ISO Standard Conductor

Part Number	Bare Copper Conductors	Conductor Diameter mm / nom	Insulation Thickness mm / nom	Finished Diameter mm / nom	Min Static Bend Radius mm	Finished Weight kg/KM nom	Maximum Conductor Resistance 20°C mΩ per M
15-09105	3mm ² (44/0.29)	2.16	0.52	3.20	16	35	6.15
15-09106	4mm ² (56/0.29)	2.46	0.51	3.48	17	45	4.71
15-09107	5mm ² (70/0.29)	2.72	0.67	4.05	20	57	3.94
15-08882	6mm ² (84/0.29)	2.92	0.61	4.14	21	67	3.14
15-09108	8mm ² (119/0.28)	3.71	0.55	4.80	24	82	2.38
15-08910	10mm ² (147/0.29)	4.19	0.71	5.61	20	107	1.82
15-09109	12mm ² (175/0.29)	4.72	0.71	6.15	31	132	1.52
15-09110	16mm ² (224/0.30)	5.59	0.60	6.80	34	163	1.16
15-09111	20mm ² (273/.29)	6.20	0.60	7.40	37	202	0.955
15-09112	25mm ² (364/.29)	6.86	0.72	8.30	42	251	0.743
15-09113	30mm ² (418/0.29)	7.32	0.91	9.14	46	291	0.647
15-09114	35mm ² (511/0.29)	8.10	0.86	9.83	49	355	0.527
15-08912	40mm ² (551/0.29)	8.56	0.97	10.49	53	388	0.473
15-09115	50mm ² (722/0.29)	9.91	0.85	11.60	58	511	0.368
15-09116	60mm ² (836/0.29)	10.44	1.09	12.62	63	589	0.315
15-09117	70mm ² (1026/0.29)	11.53	1.07	13.67	68	711	0.259
15-09118	85mm ² (1197/0.29)	12.24	1.42	15.09	75	858	0.219
15-09119	95mm ² (1330/0.30)	13.23	1.37	15.98	80	954	0.196
15-09120	120mm ² (1729/0.29) *	14.86	1.78	18.42	92	1,410	0.153
15-09121	150mm ² (2147/0.29) *	16.54	1.98	20.50	102	1,531	0.130

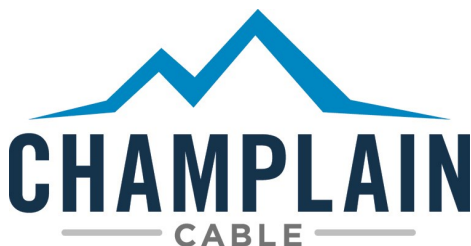
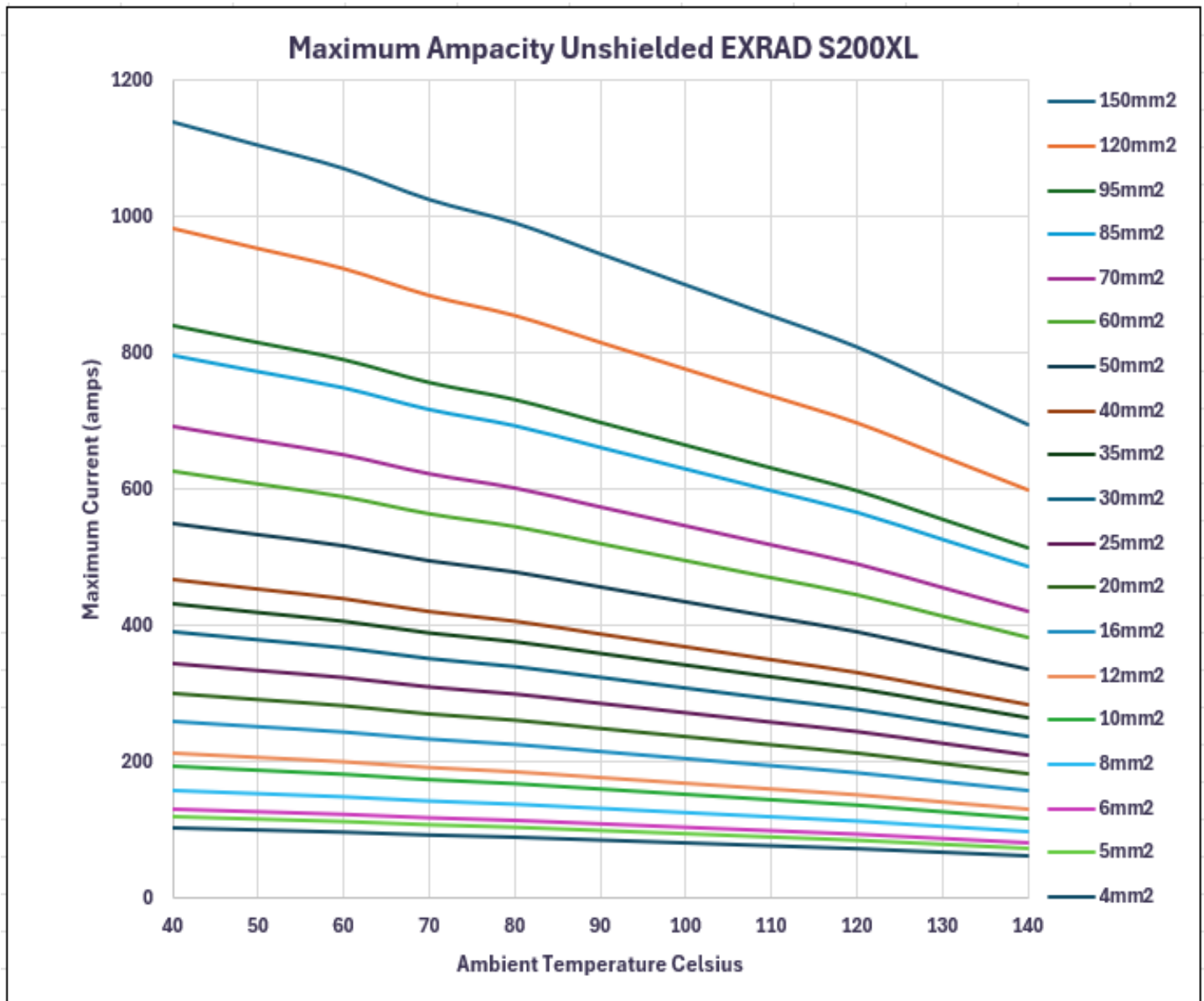
* Custom Design. Product not defined in ISO 19642 standards



EXRAD® S200XL

Thin Wall

High Voltage Cable



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ISO 19642 Section	Description	Requirement	Typical Results (35mm ² Sample)	
5.2.1	Outside Cable Diameter	10.4mm max.	9.91mm	Pass
5.2.2	Insulation Thickness	0.64mm min.	0.99mm	Pass
5.2.3	Conductor Diameter	9.0mm max.	7.87mm	Pass
5.3.1	Conductor Resistance	0.527 mΩ/m max.	0.450 mΩ/m	Pass
5.3.3	Withstand Voltage	10kV for 5min	No dielectric breakdown	Pass
5.3.5	Insulation Faults	Sparktest @ 8.0kV	No breakdown	Pass
5.3.6	Insulation Volume Resistivity	10 ¹² Ω /mm min.	1.25 x 10 ¹⁴ Ω /mm	Pass
5.4.5	Flexibility Test	Customer-Defined	34.9 N	NA
5.5.2	Long-Term Heat Aging	200°C, 3000 hrs, 3kV, no breakdown	No cracks, No breakdown	Pass
5.5.3	Short-Term Heat Aging	225°C, 240hrs, 3kV, no breakdown	No cracks, No breakdown	Pass
5.5.4	Thermal Overload	200°C, 6 hrs, 5kV	No cracks, No breakdown	Pass
5.5.5	Pressure at High Temperature	Under load @150°C, 5kV 5min, no breakdown	No cracks, No breakdown 92% retention	Pass
5.5.6	Shrinkage by heat	2mm max. @ 150°C	0.0 mm	Pass
5.5.7	Low Temperature Winding	4 hrs @ -40°C, 3kV, no breakdown	No cracks, No breakdown	Pass
5.5.8	Cold Impact	16 hrs @ -15°C, 1kV, no breakdown	No cracks, No breakdown	Pass
5.5.9	Temperature and Humidity Cycling	40 x 8 hour cycles -40°C to 150°C, relative humidity 80 -100%, 3kV	No cracks, No breakdown	Pass
5.5.10	Resistance to hot water	35 days in 85C water, IR not less than 10 ¹²	4.46 x 10 ¹² Ω/mm, no breakdown	Pass
5.5.11	Resistance to liquid chemicals	Groups 1 and 2, no breakdown.	All fluids: No crack/damage/breakdown	Pass
5.5.14	Ozone Resistance	65°C, 192 hours, Ozone (1+/- 0.05) x 10 ⁻⁶	No cracks	Pass
5.5.15	Resistance to Flame Propagation	Must extinguish within 30 sec. max. and a min of 50mm unburned	4.0 sec.	Pass

Approvals: GMW 15626; FCA/Stellantis MS90034 200C XLFE

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