

CASUSTAN™ EV

FHLR91XC13X and FHLR4GC13X

-40°C to +150°C

Construction

Type: high voltage shielded automotive cable

Core: stranded bare copper

Insulation: 91X: XLPO for cables <6 mm²
4G: EVA for cables >6 mm²

Screen: tin-plated copper braid

Wrapping: tape

Sheath: TPE-E (Vulcanised Thermoplastic Elastomer 13X)

Production

Range width: 2.5 mm² - 150 mm²

Color: Orange

Application

Automotive: high voltage and high-temperature cables for e-mobility power applications

General characteristics

Operating environment: good resistance to thermal shock

Weather conditions: good resistance to UV

Chemical behaviors: good resistance to aggressive chemical environments

Humidity: excellent resistance to humidity

Mechanical behaviors: excellent flexibility

Thermal characteristics

Continuous operating temperature: -40°C to +150°C

Electrical characteristics

Operating Voltage: 1000 VAC / 1500 VDC

Test voltage: 10kV AC

Approvals – Standards

Automotive: ISO 6722-1 class D, ISO 19642-9 class D

Halogen free: IEC 60754-2 / EN 60754-2

FHLR91XC13X

Casmco Part No.	Conductor cross-section area		Conductor structure			Conductor Diameter		Insulation Diameter		Final O.D.		Linear core resistance at 20°C
	(AWG)	mm²	# Strands	Diam. Of Strands		(in)	(mm)	(in)	(mm)	(in)	(mm)	
				(in)	(mm)							
8100501	14	2.5	50	0.010	0.26	0.08	2	0.11	2.85	0.20	5	7.6
8100502	12	4	56	0.012	0.31	0.10	2.5	0.14	3.55	0.23	5.8	4.71
8100503	10	6	84	0.012	0.31	0.12	3	0.16	4.15	0.26	6.6	3.14



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FHLR4GC13X



Casmco Part No.	Conductor cross-section area		Conductor structure			Conductor Diameter		Insulation Diameter		Final O.D.		Linear core resistance at 20°C (Ω/ km)
	(AWG)	mm²	# Strands	Diam. Of Strands		(in)	(mm)	(in)	(mm)	(in)	(mm)	
				(in)	(mm)							
8100601		8	60	0.016	0.41	0.15	3.8	0.20	5.05	0.30	7.6	2.38
8100602	8	10	78	0.016	0.41	0.17	4.3	0.23	5.75	0.33	8.4	1.82
8100603		12	92	0.016	0.41	0.19	4.7	0.24	6.1	0.35	8.9	1.52
8100604	6	16	126	0.016	0.41	0.21	5.4	0.27	6.9	0.38	9.7	1.16
8100605		20	154	0.016	0.41	0.24	6.2	0.30	7.6	0.42	10.6	0.955
8100606	4	25	189	0.016	0.41	0.26	6.7	0.32	8.2	0.44	11.2	0.743
8100607		30	224	0.016	0.41	0.29	7.4	0.36	9.1	0.48	12.1	0.647
8100608	2	35	273	0.016	0.41	0.31	7.9	0.38	9.7	0.50	12.7	0.527
8100609		40	301	0.016	0.41	0.33	8.5	0.41	10.4	0.54	13.6	0.473
8100610	1/0	50	385	0.016	0.41	0.37	9.4	0.45	11.5	0.59	14.9	0.368
8100611		60	294	0.020	0.51	0.42	10.6	0.50	12.6	0.63	15.9	0.315
8100612	2/0	70	360	0.020	0.51	0.46	11.6	0.54	13.7	0.67	17	0.259
8100613	4/0	95	480	0.020	0.51	0.53	13.5	0.64	16.2	0.78	19.9	0.196
8100614	250MCM	120	589	0.020	0.51	0.59	15.1	0.71	18	0.89	22.6	0.153
8100615	300MCM	150	741	0.020	0.51	0.67	17	0.79	20	0.98	24.9	0.122



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