FHLR91XCB91X

-40°C to +150°C, 1000/1500V



Construction
Conductor: Flexible Bare Copper
Insulation: Extruded · XLPO
Shield: Foil Braid · Tinned copper braid and aluminum-laminated foil tape
Jacket: Extruded · XLPO

Thermal Characteristics
Operating Temperature: -40°C to +150°C

Electrical Characteristics
Operating Voltage: 1000/1500V

Application
EV High-Voltage Powertrain: Dual-screened cross-linked polyolefin high-voltage power cable for electric and hybrid vehicles.

General Characteristics
Dual EMC Shielding: Combined aluminum foil and tinned copper braid suppress high-frequency powertrain interference.
Abrasion & Fluid Resistance: Cross-linked polyolefin core and jacket resist underbody abrasion, stone impact and automotive fluids.

Standards & Approvals
ISO 19642-9: Screened and sheathed high-voltage automotive cables.
ISO 19642-2: Test methods for automotive cables.

RoHS COMPLIANT REACH COMPLIANT

FHLR91XCB91X-A

CASMO Part No.	Conductor				Min. Ins. Thickness (mm)	Min. Braid Coverage (%)	Cable			Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (mm^2)	No. Of Strands	Max. Strand Dia. (mm)	Max. Conductor Dia. (mm)			Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
810182/19-XX	2	19	0.38	2.00	0.28	85	0.32	3.70	4.10	9.42	36
810183/37-XX	3	37	0.34	2.40	0.32	85	0.32	4.20	4.80	6.15	51
810185/37-XX	5	37	0.43	3.10	0.32	85	0.48	5.40	6.00	3.94	79
8101812/154-XX	12	154	0.33	5.40	0.48	85	0.52	8.00	8.60	1.52	170

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CABLES FOR EXTREMES

FHLR91XCB91X

-40°C to +150°C, 1000/1500V



FHLR91XCB91X-A

CASMO Part No.	Conductor				Min. Ins. Thickness (mm)	Min. Braid Coverage (%)	Cable			Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (mm²)	No. Of Strands	Max. Strand Dia. (mm)	Max. Conductor Dia. (mm)			Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
8101816/105-XX	16	105	0.46	6.30	0.52	85	0.64	9.00	9.60	1.16	218
8101825/154-XX	25	154	0.46	7.80	0.52	85	0.72	10.70	11.30	0.743	314
8101895/836-XX	95	836	0.40	14.80	0.90	85	0.88	19.10	19.90	0.196	1096

Table Notes

† Part No. code: XX = colour code — OR Orange (standard high-voltage colour), BK Black, RD Red, BL Blue, YW Yellow, GN Green, WH White, BN Brown, VT Violet, GY Grey.

FHLR91XCB91X-B

CASMO Part No.	Conductor				Min. Ins. Thickness (mm)	Cable			Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (mm²)	No. Of Strands	Max. Strand Dia. (mm)	Max. Conductor Dia. (mm)		Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
810182.5/50-XX	2.5	50	0.26	2.20	0.28	0.32	3.90	4.30	7.6	42
810183/44-XX	3	44	0.31	2.40	0.32	0.32	4.20	4.80	6.15	51
810184/56-XX	4	56	0.31	2.80	0.32	0.32	4.50	5.10	4.71	61
810185/65-XX	5	65	0.33	3.10	0.32	0.48	5.40	6.00	3.94	79
810185/70-XX	5	70	0.31	3.10	0.32	0.48	5.40	6.00	3.94	79
810186/84-XX	6	84	0.31	3.40	0.32	0.48	5.50	6.10	3.14	88

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CABLES FOR EXTREMES

FHLR91XCB91X

-40°C to +150°C, 1000/1500V



FHLR91XCB91X-B

CASMO Part No.	Conductor				Min. Ins. Thickness (mm)	Cable			Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (mm^2)	No. Of Strands	Max. Strand Dia. (mm)	Max. Conductor Dia. (mm)		Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
810188/116-XX	8	116	0.31	4.30	0.32	0.52	6.50	7.10	2.38	117
8101812/168-XX	12	168	0.31	5.40	0.48	0.52	8.00	8.60	1.52	170
8101816/228-XX	16	228	0.31	6.30	0.52	0.64	9.00	9.60	1.16	215
8101825/360-XX	25	360	0.31	7.80	0.52	0.72	10.70	11.30	0.743	314
8101835/504-XX	35	504	0.31	9.00	0.64	0.80	12.60	13.20	0.527	436

Table Notes

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FHLR91XCB91X-C

CASMO Part No.	Conductor				Min. Ins. Thickness (mm)	Cable			Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (mm^2)	No. Of Strands	Max. Strand Dia. (mm)	Max. Conductor Dia. (mm)		Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
810184/224-XX	4	224	0.16	2.80	0.32	0.32	4.50	5.10	4.71	61
810185/240-XX	5	240	0.16	3.10	0.32	0.48	5.40	6.00	3.94	79
810188/240-XX	8	240	0.21	4.30	0.32	0.52	6.50	7.10	2.38	113
8101810/320-XX	10	320	0.21	4.50	0.48	0.52	7.50	8.10	1.82	149

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CABLES FOR EXTREMES

FHLR91XCB91X

-40°C to +150°C, 1000/1500V



FHLR91XCB91X-C

CASMO Part No.	Conductor				Min. Ins. Thickness (mm)	Cable			Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (mm^2)	No. Of Strands	Max. Strand Dia. (mm)	Max. Conductor Dia. (mm)		Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
8101812/384-XX	12	384	0.21	5.40	0.48	0.52	8.00	8.60	1.52	170
8101816/512-XX	16	512	0.21	6.30	0.52	0.64	9.00	9.60	1.16	215
8101820/608-XX	20	608	0.21	6.90	0.52	0.64	9.60	10.20	0.955	252
8101825/790-XX	25	790	0.21	7.80	0.52	0.72	10.70	11.30	0.743	314
8101835/1102-XX	35	1102	0.21	9.00	0.64	0.80	12.60	13.20	0.527	436
8101840/1235-XX	40	1235	0.21	9.60	0.71	0.80	13.30	13.90	0.473	479
8101850/1600-XX	50	1600	0.21	10.50	0.71	0.88	14.60	15.20	0.368	600
8101860/1786-XX	60	1786	0.21	11.60	0.80	0.88	15.50	16.30	0.315	699
8101870/2147-XX	70	2147	0.21	12.50	0.80	0.88	16.60	17.40	0.259	831
8101895/3000-XX	95	3000	0.21	14.80	0.90	0.88	19.10	19.90	0.196	1093

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