FHLR2GCB91X

-40°C to +150°C, 1000/1500V



Construction
Conductor: Flexible Bare Copper
Insulation: Extruded · Silicone Rubber (SiR)
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 hybrid silicone/XLPO high-voltage cable for exposed underbody EV powertrains.

General Characteristics
Hybrid Core & Jacket: Combines a flexible silicone inner core with a tough, tear-resistant cross-linked polyolefin outer sheath.
Dual EMC Shielding: Combined aluminum foil and tinned copper braid suppress high-frequency powertrain interference.

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

RoHS COMPLIANT REACH COMPLIANT

FHLR2GCB91X-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)		
810203/37-XX	3	37	0.34	2.40	0.32	85	0.32	4.20	4.80	6.15	51
810205/37-XX	5	37	0.43	3.10	0.32	85	0.48	5.40	6.00	3.94	77
8102012/154-XX	12	154	0.33	5.40	0.48	85	0.52	8.00	8.60	1.52	169
8102025/154-XX	25	154	0.46	7.80	0.52	85	0.72	10.70	11.30	0.743	315

Please confirm application-specific requirements with CASMO before ordering. Specifications are subject to change; please ensure you are using the latest revision.

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casmocable
CABLES FOR EXTREMES

FHLR2GCB91X

-40°C to +150°C, 1000/1500V



FHLR2GCB91X-A

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.

FHLR2GCB91X-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)		
810202.5/50-XX	2.5	50	0.26	2.20	0.28	0.32	3.90	4.30	7.6	41
810203/44-XX	3	44	0.31	2.40	0.32	0.32	4.20	4.80	6.15	51
810204/56-XX	4	56	0.31	2.80	0.32	0.32	4.50	5.10	4.71	61
810205/65-XX	5	65	0.33	3.10	0.32	0.48	5.40	6.00	3.94	77
810205/70-XX	5	70	0.31	3.10	0.32	0.48	5.40	6.00	3.94	77
810206/84-XX	6	84	0.31	3.40	0.32	0.48	5.50	6.10	3.14	88
8102010/80-XX	10	80	0.41	4.50	0.48	0.52	7.50	8.10	1.82	149
8102012/174-XX	12	174	0.31	5.40	0.48	0.52	8.00	8.60	1.52	169
8102016/228-XX	16	228	0.31	6.30	0.52	0.64	9.00	9.60	1.16	215
8102025/355-XX	25	355	0.31	7.80	0.52	0.72	10.70	11.30	0.743	315
8102035/501-XX	35	501	0.31	9.00	0.64	0.80	12.60	13.20	0.527	434

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CABLES FOR EXTREMES

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FHLR2GCB91X-B

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FHLR2GCB91X-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)		
8102010/320-XX	10	320	0.21	4.50	0.48	0.52	7.50	8.10	1.82	149
8102012/380-XX	12	380	0.21	5.40	0.48	0.52	8.00	8.60	1.52	169
8102016/512-XX	16	512	0.21	6.30	0.52	0.64	9.00	9.60	1.16	215
8102020/610-XX	20	610	0.21	6.90	0.52	0.64	9.60	10.20	0.955	252
8102025/790-XX	25	790	0.21	7.80	0.52	0.72	10.70	11.30	0.743	315
8102035/1102-XX	35	1102	0.21	9.00	0.64	0.80	12.60	13.20	0.527	434
8102040/1235-XX	40	1235	0.21	9.60	0.71	0.80	13.30	13.90	0.473	478
8102050/1600-XX	50	1600	0.21	10.50	0.71	0.88	14.60	15.20	0.368	598
8102060/1841-XX	60	1841	0.21	11.60	0.80	0.88	15.50	16.30	0.315	700
8102070/2147-XX	70	2147	0.21	12.50	0.80	0.88	16.60	17.40	0.259	829
8102095/3000-XX	95	3000	0.21	14.80	0.90	0.88	19.10	19.90	0.196	1090

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FHLR2GCB91X-C

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