FHLR2G

-40°C to +180°C, 1000/1500V



Construction
Conductor: Flexible Bare Copper
Insulation: Extruded · Silicone Rubber (SiR)

Thermal Characteristics
Operating Temperature: -40°C to +180°C

Electrical Characteristics
Operating Voltage: 1000/1500V

Application
EV High-Voltage Circuits: Reduced-wall unscreened high-voltage cable for electric and hybrid vehicle powertrains.

General Characteristics
Reduced-Wall Profile: Reduced insulation wall thickness saves space and weight inside battery packs and ducts.
Flexible Routing: Fine-stranded conductor and supple silicone insulation allow tight routing turns.

Standards & Approvals
ISO 19642-5: Unscreened single-core high-voltage automotive cables.
ISO 19642-2: Test methods for automotive cables.

RoHS COMPLIANT REACH COMPLIANT

FHLR2G-A

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. Overall O.D. (mm)	Max. Overall O.D. (mm)		
810021.5/19-XX	1.5	19	0.33	1.70	0.24	2.20	2.40	12.7	16

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.

FHLR2G-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. Overall O.D. (mm)	Max. Overall O.D. (mm)		
810021.5/30-XX	1.5	30	0.26	1.70	0.24	2.20	2.40	12.7	16
810022.5/50-XX	2.5	50	0.26	2.20	0.28	2.70	3.00	7.6	26
810024/56-XX	4	56	0.31	2.75	0.32	3.40	3.70	4.71	40
810026/84-XX	6	84	0.31	3.40	0.32	4.00	4.30	3.14	59
8100210/80-XX	10	80	0.41	4.50	0.48	5.40	5.80	1.82	101
8100212/96-XX	12	96	0.41	4.80	0.48	6.00	6.50	1.52	122
8100216/126-XX	16	126	0.41	5.50	0.52	6.50	7.00	1.16	158
8100220/156-XX	20	156	0.41	6.10	0.52	7.50	7.80	0.955	194
8100225/196-XX	25	196	0.41	7.00	0.52	8.20	8.70	0.743	244

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CABLES FOR EXTREMES

FHLR2G

-40°C to +180°C, 1000/1500V



FHLR2G-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. Overall O.D. (mm)	Max. Overall O.D. (mm)		
8100230/228-XX	30	228	0.41	7.40	0.64	9.00	9.60	0.647	285
8100235/276-XX	35	276	0.41	8.30	0.64	9.80	10.40	0.527	343
8100240/320-XX	40	320	0.41	9.40	0.72	10.40	11.10	0.473	386
8100250/396-XX	50	396	0.41	9.70	0.72	11.80	12.20	0.368	491
8100270/360-XX	70	360	0.51	12.50	0.80	14.00	14.40	0.259	696

Table Notes

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FHLR2G-C

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. Overall O.D. (mm)	Max. Overall O.D. (mm)		
810026/189-XX	6	189	0.21	3.40	0.32	4.00	4.30	3.14	59
8100210/320-XX	10	320	0.21	4.50	0.48	5.40	5.80	1.82	101
8100212/384-XX	12	384	0.21	4.80	0.48	5.80	6.20	1.52	122
8100216/512-XX	16	512	0.21	5.50	0.52	6.50	7.00	1.16	158
8100220/608-XX	20	608	0.21	6.10	0.52	7.50	7.80	0.955	194
8100225/790-XX	25	790	0.21	7.00	0.52	8.20	8.70	0.743	244
8100230/912-XX	30	912	0.21	8.20	0.64	9.20	9.60	0.647	285
8100235/1102-XX	35	1102	0.21	8.30	0.64	9.80	10.40	0.527	343
8100240/1235-XX	40	1235	0.21	8.60	0.72	10.70	11.10	0.473	386
8100250/1600-XX	50	1600	0.21	10.50	0.72	11.80	12.20	0.368	491
8100270/2147-XX	70	2147	0.21	11.60	0.80	14.00	14.40	0.259	696
8100295/3000-XX	95	3000	0.21	14.70	0.90	16.20	16.70	0.196	920

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