FHL2G

-40°C to +200°C, 1000/1500V



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

Thermal Characteristics
Operating Temperature: -40°C to +200°C

Electrical Characteristics
Operating Voltage: 1000/1500V

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

General Characteristics
Thermal Endurance: Maintains dielectric integrity and elasticity under continuous high-temperature powertrain service.
Flexible Routing: Soft silicone insulation allows tight bend radii in compact battery and inverter harnesses.

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

RoHS COMPLIANT REACH COMPLIANT

FHL2G-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)		
810120.5/7-XX	0.5	7	0.32	1.10	0.48	2.00	2.30	37.1	9
810120.75/19-XX	0.75	19	0.24	1.30	0.48	2.20	2.50	24.7	12
810121/19-XX	1	19	0.27	1.50	0.48	2.40	2.70	18.5	14
810121.5/19-XX	1.5	19	0.32	1.80	0.48	2.70	3.00	12.7	19
810122.5/19-XX	2.5	19	0.41	2.20	0.56	3.30	3.60	7.6	30

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.

FHL2G-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)		
810120.5/16-XX	0.5	16	0.21	1.10	0.48	2.00	2.30	37.1	9
810120.75/24-XX	0.75	24	0.21	1.30	0.48	2.20	2.50	24.7	12
810121/32-XX	1	32	0.21	1.50	0.48	2.40	2.70	18.5	14
810121.5/30-XX	1.5	30	0.26	1.80	0.48	2.70	3.00	12.7	19
810122/37-XX	2	37	0.26	2.00	0.48	3.00	3.30	9.4	24

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CABLES FOR EXTREMES

FHL2G

-40°C to +200°C, 1000/1500V



FHL2G-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)		
810122.5/50-XX	2.5	50	0.26	2.20	0.56	3.30	3.60	7.6	30
810123/44-XX	3	44	0.31	2.40	0.56	3.80	4.10	6.15	38
810124/56-XX	4	56	0.31	2.80	0.64	4.00	4.40	4.7	46
810125/70-XX	5	70	0.31	3.10	0.64	4.50	4.90	3.94	56
810126/84-XX	6	84	0.31	3.40	0.64	4.60	5.00	3.1	66
810128/62-XX	8	62	0.41	4.30	0.64	5.00	5.90	2.38	84
8101210/80-XX	10	80	0.41	4.50	0.80	5.90	6.50	1.82	108
8101212/96-XX	12	96	0.41	5.40	0.80	6.60	7.40	1.52	132
8101216/126-XX	16	126	0.41	5.80	0.80	7.70	8.30	1.16	174
8101220/156-XX	20	156	0.41	6.90	0.88	8.10	9.10	0.955	206
8101225/196-XX	25	196	0.41	7.20	1.04	9.40	10.00	0.743	263
8101230/228-XX	30	228	0.41	8.30	1.04	9.70	10.90	0.647	298
8101235/276-XX	35	276	0.41	8.50	1.04	10.30	11.00	0.527	356
8101240/320-XX	40	320	0.41	9.60	1.12	11.20	12.40	0.473	404
8101250/396-XX	50	396	0.41	10.50	1.20	12.40	13.20	0.368	510
8101260/296-XX	60	296	0.51	11.60	1.20	13.40	14.60	0.315	596
8101270/360-XX	70	360	0.51	12.50	1.20	14.30	15.10	0.259	700
8101285/1197-XX	85	1197	0.31	13.60	1.28	14.80	16.80	0.219	827
8101295/475-XX	95	475	0.51	14.80	1.28	16.40	17.40	0.196	933
81012120/608-XX	120	608	0.51	16.50	1.28	18.50	19.50	0.153	1212
81012150/760-XX	150	760	0.51	18.50	1.70	21.00	23.00	0.129	1582
81012180/925-XX	180	925	0.51	20.30	1.70	23.00	25.00	0.106	1930
81012240/1221-XX	240	1221	0.51	23.00	1.70	26.00	28.00	0.0801	2474
81012300/1529-XX	300	1529	0.51	26.00	2.24	30.20	32.20	0.0641	3131

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CABLES FOR EXTREMES

FHL2G

-40°C to +200°C, 1000/1500V



FHL2G-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)		
810123/160-XX	3	160	0.16	2.40	0.56	3.80	4.10	6.15	38
810124/120-XX	4	120	0.21	2.80	0.64	4.00	4.40	4.7	46
810125/150-XX	5	150	0.21	3.10	0.64	4.50	4.90	3.94	56
810126/189-XX	6	189	0.21	3.40	0.64	4.60	5.00	3.1	66
810128/240-XX	8	240	0.21	4.30	0.64	5.00	5.90	2.38	84
8101210/320-XX	10	320	0.21	4.50	0.80	5.90	6.50	1.82	108
8101212/384-XX	12	384	0.21	5.40	0.80	6.60	7.40	1.52	132
8101216/512-XX	16	512	0.21	5.80	0.80	7.70	8.30	1.16	174
8101220/608-XX	20	608	0.21	6.90	0.88	8.10	9.10	0.955	206
8101225/790-XX	25	790	0.21	7.20	1.04	9.40	10.00	0.743	263
8101230/912-XX	30	912	0.21	8.30	1.04	9.70	10.90	0.647	298
8101235/1102-XX	35	1102	0.21	8.50	1.04	10.30	11.00	0.527	356
8101240/1235-XX	40	1235	0.21	9.60	1.12	11.20	12.40	0.473	404
8101250/1600-XX	50	1600	0.21	10.50	1.20	12.40	13.20	0.368	510
8101260/1786-XX	60	1786	0.21	11.60	1.20	13.40	14.60	0.315	596
8101270/2147-XX	70	2147	0.21	12.50	1.20	14.30	15.10	0.259	700
8101285/2736-XX	85	2736	0.21	13.60	1.28	14.80	16.80	0.219	827
8101295/3000-XX	95	3000	0.21	14.80	1.28	16.40	17.40	0.196	933
81012120/3648-XX	120	3648	0.21	16.50	1.28	18.50	19.50	0.153	1212
81012150/4810-XX	150	4810	0.21	18.50	1.70	21.00	23.00	0.129	1582
81012180/5920-XX	180	5920	0.21	20.30	1.70	23.00	25.00	0.106	1930
81012240/9546-XX	240	9546	0.21	23.00	1.70	26.00	28.00	0.0801	2474

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