FHL9Y

-40°C to +125°C, 1000/1500V



Construction
Conductor: Flexible Bare Copper
Insulation: Extruded · PP (Polypropylene)

Thermal Characteristics
Operating Temperature: -40°C to +125°C

Electrical Characteristics
Operating Voltage: 1000/1500V

Application
EV High-Voltage Circuits: Thick-wall halogen-free high-voltage wire for vehicle body and auxiliary EV circuits.

General Characteristics
Abrasion & Cut-Through Resistance: Tough insulation compound resists pinch, cut-through, and mechanical wear against chassis edges.
Thin-Wall Space Saving: Compact thin-wall insulation reduces harness bundle diameter and overall weight.

Standards & Approvals
ISO 19642-5: Unscreened single-core high-voltage automotive cables.
ISO 19642-2: Test methods for automotive cables.
Halogen-Free: EN 50525-1 Annex B / IEC 60754-1 & IEC 60754-2

RoHS COMPLIANT REACH COMPLIANT

FHL9Y-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)		
810160.5/19-XX	0.5	19	0.19	1.00	0.48	2.00	2.30	37.1	8.5
810160.75/19-XX	0.75	19	0.23	1.20	0.48	2.20	2.50	24.7	11
810161/19-XX	1	19	0.26	1.35	0.48	2.40	2.70	18.5	14
810161.5/19-XX	1.5	19	0.32	1.70	0.48	2.70	3.00	12.7	19

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.

FHL9Y-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)		
810162.5/50-XX	2.5	50	0.26	2.20	0.56	3.30	3.60	7.6	30
810164/56-XX	4	56	0.31	2.75	0.64	4.00	4.40	4.71	46
810166/84-XX	6	84	0.31	3.30	0.64	4.60	5.00	3.14	65

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.

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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