

# NEMA HP8 (Type LS)

## Low Smoke, Cross-Linked Modified Polyethylene - 600V, 105°C

Reference: MIL-DTL-16878/36

### APPLICATION

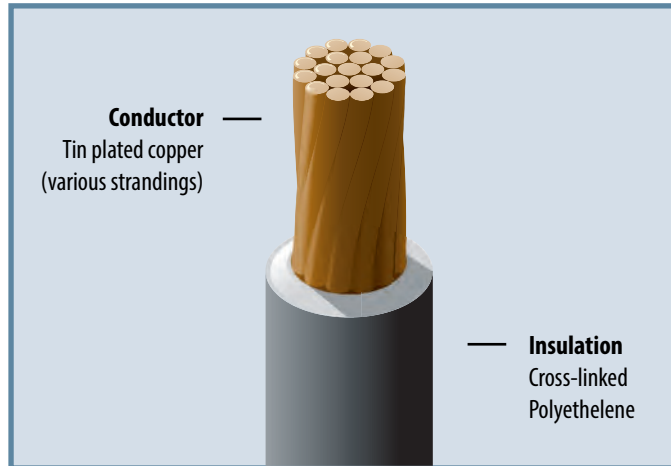
This irradiation cross-linked polyethylene insulated wire is formulated to be fire resistant and produce low levels of smoke when burned. It meets the U.S. Navy requirements for smoke, toxicity, and acid gas. The insulation combines excellent thermal stability with very good wet electrical values. Having thermoset mechanical characteristics, it provides a superior small diameter, electronic hook-up wire.

### CONDUCTOR

Soft annealed tin plated copper, stranding as listed in the below table.

### INSULATION

Extruded layer of Cross-linked Polyethylene.



Part Number	Conductor			Conductor Resistance @20°C		Max. Diameter		Weight		
	Size		Strand- ing	Ω/kft	Ω/km	Inch	mm	lbs/kft	kg/km	
	AWG	mm <sup>2</sup>								
<b>Type LS, 600 V</b>										
HP8LS-BDB-X	26	.14	7/34	TC	43.4	142	.041	1.04	1.50	2.23
HP8LS-BEB-X	24	.23	7/32		27.0	88.6	.046	1.17	2.10	3.13
HP8LS-BFB-X	22	.35	7/30		17.1	56.1	.052	1.32	3.10	4.61
HP8LS-BGE-X	20	.62	19/32		9.88	32.4	.060	1.52	4.70	6.99
HP8LS-BHE-X	18	.96	19/30		6.23	20.4	.070	1.78	7.10	10.6
HP8LS-BJE-X	16	1.23	19/29		4.81	15.8	.080	2.03	9.30	13.8
HP8LS-BKE-X	14	1.94	19/27		3.06	10.0	.096	2.44	14.1	21.0
HP8LS-BLE-X	12	3.08	19/25		1.92	6.30	.125	3.18	25.2	37.5
HP8LS-BMG-X	10	4.74	37/36		1.26	4.13	.155	3.94	38.7	57.6
HP8LS-BNL-X	8	8.61	133/29		.701	2.30	.225	5.72	65.0	96.7
HP8LS-BPL-X	6	13.6	133/27		.445	1.46	.265	6.73	101	150
HP8LS-BRL-X	4	22.0	133/25		.280	.919	.340	8.64	149	222
HP8LS-BSP-X	2	34.0	665/30		.183	.600	.420	10.7	237	353

X = color. See page 67 for color designator.

The above part numbers represent the more popular constructions. However, other designs are available upon request.

All products are manufactured to meet RoHS compliance. For exceptions, please contact our sales department.

### APPROVALS AND RATINGS

NEMA HP8

105°C conductor temperature, 600 volt

US NAVY Acid Gas, Smoke, & Toxicity