

# NEMA HP5 (Type LX)

## Cross-Linked Modified Polyethylene 3000V, 125°C

### APPLICATION

This irradiated polyolefin insulated wire has outstanding flame retardant and high temperature characteristics. It combines excellent thermal stability and high electrical values to provide a superior, small diameter, electronic hook-up wire. The wire passes the difficult VW-1 fire test, has thermoset mechanical characteristics, and very low levels of corrosive content. The wires offer a cost effective alternative to the more expensive fluoropolymers such as PTFE and ETFE.

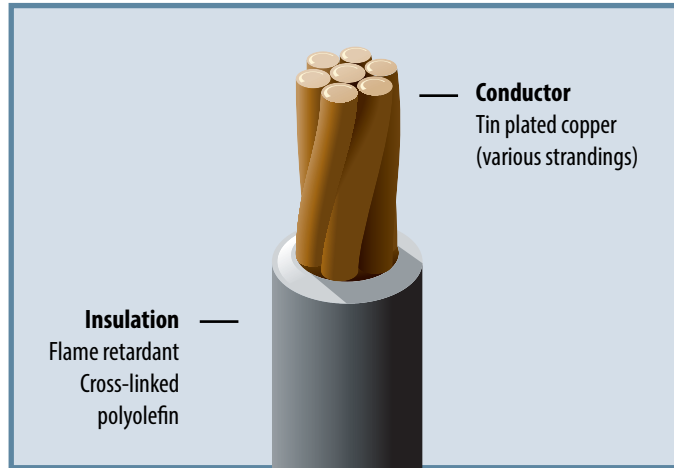
### CONDUCTOR

Soft annealed tin plated copper, stranded as listed below.

### INSULATION

Extruded layer of irradiation cross-linked polyolefin meeting the requirements of specifications DDA 1066.

Reference: MIL-DTL-16878/16



Part Number	Conductor			Conductor Resistance @20°C		Max. Diameter		Weight	
	Size		Stranding	Ω/kft	Ω/km	Inch	mm	lbs/kft	kg/km
	AWG	mm <sup>2</sup>							
<b>HP-5 TYPE LX, 3000V</b>									
HP5LX-BDB-X	26	.14	7/34	43.4	142	.085	2.16	3.9	5.80
HP5LX-BEB-X	24	.23	7/32	27.0	88.6	.090	2.29	4.7	6.99
HP5LX-BFB-X	22	.35	7/30	17.1	56.1	.098	2.49	5.9	8.78
HP5LX-BGE-X	20	.62	19/32	9.88	32.4	.105	2.67	7.4	11.0
HP5LX-BHE-X	18	.96	19/30	6.23	20.4	.114	2.89	10.0	14.9
HP5LX-BJE-X	16	1.23	19/29	4.81	15.8	.123	3.12	14.0	21
HP5LX-BKE-X	14	1.94	19/27	3.06	10.04	.138	3.51	19.4	29
HP5LX-BLE-X	12	3.08	19/25	1.92	6.30	.171	4.34	28.2	42
HP5LX-BMG-X	10	4.74	37/26	1.26	4.13	.189	4.80	38.7	57
HP5LX-BNL-X	8	8.61	133/29	.701	2.30	.254	6.45	70.1	104
HP5LX-BPL-X	6	13.6	133/27	.445	1.46	.298	7.57	107	159
HP5LX-BRL-X	4	22.0	133/25	.280	.919	.366	9.30	166	247
HP5LX-BSP-X	2	34.0	665/30	.183	.600	.435	11.0	256	380
HP5LX-BTR-X	1	41.0	817/30	.149	.489	.488	12.4	314	467
HP5LX-BUS-X	1/0	53.0	1045/30	.116	.381	.538	13.7	399	593
HP5LX-BWT-X	2/0	67.0	1330/30	.091	.299	.599	15.0	498	741
HP5LX-BYV-X	3/0	85.0	1672/30	.071	.233	.681	17.0	628	934
HP5LX-BZW-X	4/0	107	2109/30	.056	.184	.733	19.0	785	1168

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

125°C conductor temperature,

3000 volt.

NEMA HP-5 Type LX – MIL-W-16878/16