

# NEMA HP8 (Types ZH & ZHX)

Low Smoke, Zero Halogen Cross-Linked Polyolefin - 600V & 1000V, 125°C

## APPLICATION

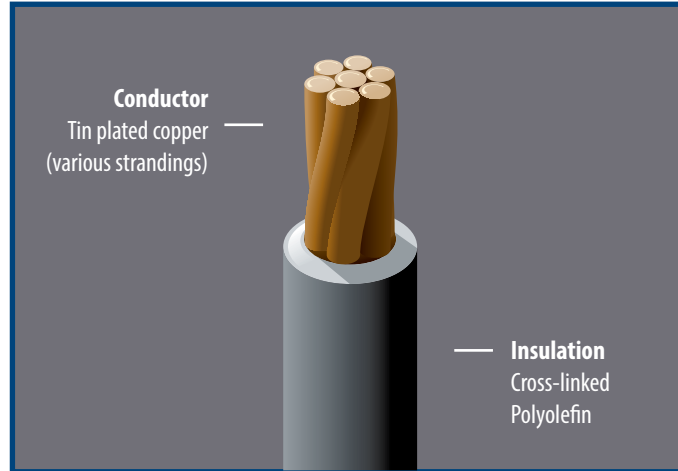
This irradiation cross-linked polyolefin insulated wire is formulated to be fire resistant and contain zero halogens. It meets the U.S. Navy requirements for smoke, toxicity, and acid gas. The insulation combines excellent thermal stability with very good wet electrical values. It provides a superior 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 Polyolefin.



Part Number	Conductor			Material	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>Type ZH 600V</b>										
HP8ZH-BDB-X	26	.14	7/34	TC	43.4	142	.041	1.04	1.50	2.23
HP8ZH-BEB-X	24	.23	7/32		27.0	88.6	.046	1.17	2.10	3.13
HP8ZH-BFB-X	22	.35	7/30		17.1	56.1	.052	1.32	3.10	4.61
HP8ZH-BGE-X	20	.62	19/32		9.88	32.4	.060	1.52	4.70	6.99
HP8ZH-BHE-X	18	.96	19/30		6.23	20.4	.070	1.78	7.10	10.6
HP8ZH-BJE-X	16	1.23	19/29		4.81	15.8	.080	2.03	9.30	13.8
HP8ZH-BKE-X	14	1.94	19/27		3.06	10.0	.096	2.44	14.1	21.0
HP8ZH-BLE-X	12	3.08	19/25		1.92	6.30	.125	3.18	25.2	37.5
HP8ZH-BMG-X	10	4.74	37/36		1.26	4.13	.155	3.94	38.7	57.6
HP8ZH-BNL-X	8	8.61	133/29		.701	2.30	.225	5.72	65.0	96.7
HP8ZH-BPL-X	6	13.6	133/27		.445	1.46	.265	6.73	101	150
HP8ZH-BRL-X	4	22.0	133/25		.280	.919	.340	8.64	149	222
HP8ZH-BSP-X	2	34.0	665/30		.183	.600	.420	10.7	237	353
<b>Type ZHX 1000V</b>										
HP8ZHX-BDB-X	26	.14	7/34	TC	43.4	142	.056	1.42	1.5	2.23
HP8ZHX-BEB-X	24	.23	7/32		27.0	88.6	.060	1.52	2.1	3.13
HP8ZHX-BFB-X	22	.35	7/30		17.1	56.1	.068	1.73	3.1	4.61
HP8ZHX-BGE-X	20	.62	19/32		9.88	32.4	.074	1.88	4.7	6.99
HP8ZHX-BHE-X	18	.96	19/30		6.23	20.4	.086	2.18	7.1	10.6
HP8ZHX-BJE-X	16	1.23	19/29		4.81	15.8	.095	2.41	9.3	13.8
HP8ZHX-BKE-X	14	1.94	19/27		3.06	10.0	.110	2.79	14.1	21.0
HP8ZHX-BLE-X	12	3.08	19/25		1.92	6.30	.130	3.30	25.2	37.5
HP8ZHX-BMG-X	10	4.74	37/36		1.26	4.13	.175	4.45	38.7	57.6
HP8ZHX-BNL-X	8	8.61	133/29		.701	2.30	.250	6.35	65.0	96.7
HP8ZHX-BPL-X	6	13.6	133/27		.445	1.46	.290	7.37	101.0	150
HP8ZHX-BRL-X	4	22.0	133/25		.280	.919	.360	9.14	149.0	222
HP8ZHX-BSP-X	2	34.0	665/30		.183	.600	.435	11.1	237.0	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  
125°C conductor temperature,  
600 & 1000 volt  
US NAVY Acid Gas, Halogen, Smoke,  
& Toxicity