

# NEMA HP6 (Types ZHS & ZHSS)

Low Smoke, Zero Halogen Silicone  
600V & 1000V, 150°C

## APPLICATION

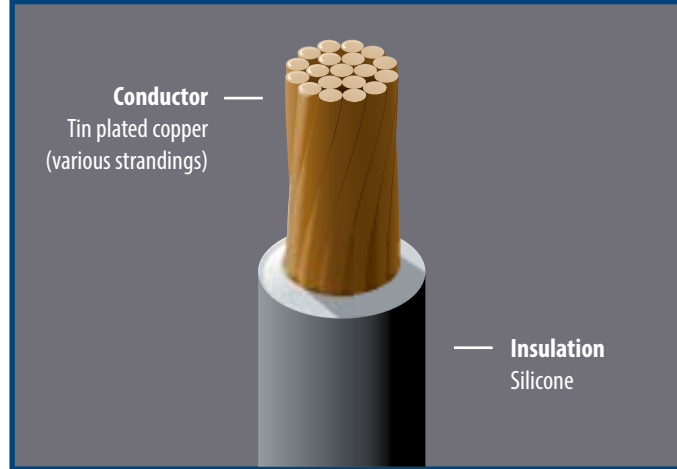
This insulation material is unusual in the unique balance of properties it provides. It meets the U.S. Navy requirements for smoke, toxicity, acid gas and halogen content. It is durable and highly flexible. It is also inherently flame resistant and can be used for high temperature applications.

## CONDUCTOR

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

## INSULATION

Extruded layer of Silicone insulation.



Part Number	Conductor				Conductor Resistance @20°C		Nom. Diameter		Weight	
	Size		Stranding	Material	Ω/kft	Ω/km	Inch	mm	lbs/kft	kg/km
	AWG	mm <sup>2</sup>								
<b>Type ZHS, 600V</b>										
HP6ZHS-HGE-X	20	.62	19/32	TC	9.88	32.4	.072	1.83	4.98	7.41
HP6ZHS-HHE-X	18	.96	19/30		6.23	20.4	.082	2.08	7.27	10.82
HP6ZHS-HJE-X	16	1.23	19/29		4.81	15.8	.091	2.31	9.31	13.86
HP6ZHS-HKH-X	14	2.08	41/30		2.94	9.65	.122	3.10	18.82	28.01
HP6ZHS-HLJ-X	12	3.29	65/30		1.85	6.07	.141	3.58	25.42	37.83
HP6ZHS-HMK-X	10	5.32	105/30		1.15	3.77	.166	4.22	34.49	51.33
<b>Type ZHSS, 1000V</b>										
HP6ZHSS-HHE-X	18	.96	19/30	TC	6.23	20.4	.115	2.92	10.1	15.1
HP6ZHSS-HJE-X	16	1.23	19/29		4.81	15.8	.124	3.15	12.0	17.9
HP6ZHSS-HKH-X	14	2.08	41/30		2.94	9.65	.171	4.34	25.2	37.5
HP6ZHSS-HLJ-X	12	3.29	65/30		1.85	6.07	.190	4.83	32.2	47.9
HP6ZHSS-HMK-X	10	5.32	105/30		1.15	3.77	.210	5.33	41.8	62.2
HP6ZHSS-HNM-X	8	8.51	168/30		.708	2.32	.307	7.80	78.3	117
HP6ZHSS-HPN-X	6	13.5	259/30		.466	1.53	.351	8.92	114	170
HP6ZHSS-HRO-X	4	21.3	420/30		.299	.981	.407	10.3	168	250
HP6ZHSS-HSP-X	2	34.0	665/30		.183	.600	.473	12.0	260	387
HP6ZHSS-HTR-X	1	41.0	817/30		.149	.489	.550	14.0	320	476
HP6ZHSS-HUS-X	1/0	53.0	1045/30		.116	.381	.596	15.1	402	598
HP6ZHSS-HWT-X	2/0	67.0	1330/30		.091	.299	.649	16.5	502	747
HP6ZHSS-HYV-X	3/0	85.0	1672/30		.071	.233	.725	18.4	624	929
HP6ZHSS-HZW-X	4/0	107	2109/30		.056	.184	.773	19.6	779	1159
HP6ZHSS-HVX-X	250	168	2449/30		.046	.151	.880	22.4	903	1344
HP6ZHSS-HXY-X	350	235	3458/30		.033	.108	.940	23.9	1240	1845
HP6ZHSS-HQZ-X	400	269	3990/30		.028	.092	1.025	26.0	1430	2128

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 HP6  
150°C conductor temperature,  
600 & 1000 volt  
US NAVY Acid Gas, Halogen, Smoke,  
& Toxicity

