

## UNSHIELDED SILICONE HIGH VOLTAGE / HIGH TEMPERATURE APPLIANCE WIRE 5kV<sub>DC</sub> - 50kV<sub>DC</sub> - AWM STYLE 3239 CERTIFIED - INTERNAL USE

### FEATURES

- 24 AWG to 10 AWG conductors
- High temperature 150°C rating
- High flexibility
- Ozone and corona resistant
- Meets VW-1 flame test requirements
- RoHS compliant



### TYPICAL APPLICATIONS

- Internal high voltage wiring
- Laser power supplies
- CRT / video displays

CONDUCTOR			RATED VOLTAGE [kV <sub>DC</sub> ]										
			5	10	15	20	25	30	35	40	45	50	
SIZE [AWG]	STRANDS [n/AWG]	AREA [mm <sup>2</sup> ]	NOM. OUTER DIAMETER [mm] [inch]										
24	7/32	0.24	2.2 .086	2.7 .107	3.0 .118	3.5 .136	-	-	-	-	-	-	-
22	7/30	0.36	2.3 .092	2.8 .112	3.1 .122	3.6 .143	4.4 .175	5.5 .215	6.1 .242	6.9 .272	7.9 .312	8.9 .352	
22	19/34	0.38	2.3 .092	2.8 .112	3.1 .122	3.6 .143	4.4 .175	5.5 .215	6.1 .242	6.9 .272	7.9 .312	8.9 .352	
20	10/30	0.51	2.5 .098	3.0 .118	3.3 .128	3.8 .15	4.6 .182	5.6 .22	6.3 .248	7.1 .278	8.1 .318	9.1 .358	
18	16/30	0.81	2.8 .11	3.3 .13	3.6 .14	4.1 .16	5.0 .195	5.8 .23	6.6 .26	7.4 .29	8.4 .33	9.4 .37	
16	26/30	1.32	2.9 .116	3.5 .136	3.7 .146	4.2 .165	5.1 .20	6.1 .24	6.8 .266	7.6 .30	8.5 .336	9.6 .376	
14	41/30	2.09	3.4 .132	3.9 .152	4.1 .162	4.6 .182	5.5 .216	6.5 .255	7.2 .282	8.0 .315	8.9 .352	10.0 .392	
12	65/30	3.31	3.8 .15	4.3 .17	4.6 .18	5.1 .20	5.9 .234	6.9 .27	7.6 .30	8.5 .335	9.4 .37	10.5 .415	
10	105/30	5.35	4.4 .175	5.0 .195	5.2 .205	5.7 .225	6.6 .259	7.5 .295	8.3 .325	9.1 .36	10.0 .395	11.2 .44	

The above list represents standard constructions for UL 3239.

Min. Bend Radius: 8 \* Outer Diameter (fixed)

These cables have been spark tested according to UL758 during production. It is recommended to derate the operating voltage for continuous operation. The user has to ensure by adequate tests that the cable is suitable for his application.

### ORDERING INFORMATION





















































































Ordering example for part number: **HSX-2022-7-2**

HSX	-	20	-	22	-	7	-	2
Base Part Designation		Voltage Rating [kV <sub>DC</sub> ]		Conductor Size [AWG]		No. of Strands		Color Code

### COLOR CODE

0 black	1 brown	2 red	3 orange	4 yellow	5 green
6 blue	7 violet	8 grey	9 white	10 natural	

## ▪ HSX SERIES CROSS SECTION VIEWS

						
HSX-0524-7	HSX-0522-7	HSX-0522-19	HSX-0520-10	HSX-0518-16	HSX-0516-26	HSX-0514-41
						
HSX-0512-65	HSX-0510-105	HSX-1024-7	HSX-1022-7	HSX-1022-19	HSX-1020-10	HSX-1018-16
						
HSX-1016-26	HSX-1014-41	HSX-1012-65	HSX-1010-105	HSX-1524-7	HSX-1522-7	HSX-1522-19
						
HSX-1520-10	HSX-1518-16	HSX-1516-26	HSX-1514-41	HSX-1512-65	HSX-1510-105	HSX-2024-7
						
HSX-2022-7	HSX-2022-19	HSX-2020-10	HSX-2018-16	HSX-2016-26	HSX-2014-41	HSX-2012-65
						
HSX-2010-105	HSX-2522-7	HSX-2522-19	HSX-2520-10	HSX-2518-16	HSX-2516-26	HSX-2514-41
						
HSX-2512-65	HSX-2510-105	HSX-3022-7	HSX-3022-19	HSX-3020-10	HSX-3018-16	HSX-3016-26
						
HSX-3014-41	HSX-3012-65	HSX-3010-105	HSX-3522-7	HSX-3522-19	HSX-3520-10	HSX-3518-16
						
HSX-3516-26	HSX-3514-41	HSX-3512-65	HSX-3510-105	HSX-4022-7	HSX-4022-19	HSX-4020-10
						
HSX-4018-16	HSX-4016-26	HSX-4014-41	HSX-4012-65	HSX-4010-105	HSX-4522-7	HSX-4522-19
						
HSX-4520-10	HSX-4518-16	HSX-4516-26	HSX-4514-41	HSX-4512-65	HSX-4510-105	HSX-5022-7
						
HSX-5022-19	HSX-5020-10	HSX-5018-16	HSX-5016-26	HSX-5014-41	HSX-5012-65	HSX-5010-105