

UNSHIELDED SILICONE HIGH VOLTAGE / HIGH TEMPERATURE APPLIANCE WIRE 5kV_{DC} – 50kV_{DC} - 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 _{DC}]									
			5	10	15	20	25	30	35	40	45	50
SIZE [AWG]	STRANDS [n/AWG]	AREA [mm ²]	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 _{DC}]		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	