

UNSHIELDED SILICONE HIGH VOLTAGE / HIGH TEMPERATURE APPLIANCE WIRE 5kV_{DC} - 60kV_{DC} - AWM STYLE 3239 AND CANADIAN CERTIFIED - INTERNAL USE

FEATURES

- 24 AWG - 10 AWG conductors
- High temperature 150°C rating
- Optional silver-plated / 200°C version
- High flexibility
- Ozone and corona resistant
- Meets VW-1 flame test
- RoHS compliant

TYPICAL APPLICATIONS

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



CONDUCTOR			RATED VOLTAGE [kV _{DC}]												
			5	6	10	15	20	25	30	35	40	45	50	55	60
SIZE [AWG]	STRANDS [n/AWG]	AREA [mm ²]	NOM. OUTER DIAMETER												
			[mm] [inch]												
24	19/36	0.24	2.0 .077	2.3 .089	2.5 .099	2.7 .107	3.2 .126	3.8 .150	4.4 .174	5.0 .196	5.5 .218	6.8 .266	7.8 .306	8.2 .322	8.5 .336
22	7/30	0.36	2.1 .083	2.4 .095	2.7 .105	2.9 .113	3.4 .132	4.0 .156	4.6 .180	5.1 .202	5.7 .224	6.9 .272	7.9 .312	8.3 .328	8.7 .342
20	10/30	0.51	2.3 .090	2.6 .103	2.8 .110	3.0 .120	3.6 .140	4.2 .164	4.8 .188	5.3 .210	5.9 .232	7.1 .280	8.1 .320	8.5 .336	8.9 .350
18	16/30	0.81	2.5 .099	2.9 .115	3.1 .123	3.3 .131	3.8 .151	4.4 .175	5.1 .199	5.6 .221	6.2 .243	7.4 .291	8.4 .331	8.8 .347	9.2 .361
16	26/30	1.32	2.7 .108	3.1 .121	3.3 .130	3.5 .138	4.0 .158	4.6 .182	5.2 .206	5.8 .228	6.4 .250	7.6 .298	8.6 .338	9.0 .354	9.3 .368
14	41/30	2.08	3.1 .124	3.5 .137	3.7 .146	3.9 .154	4.4 .174	5.0 .197	5.6 .222	6.1 .240	6.8 .266	8.0 .314	9.0 .354	9.4 .370	9.8 .384
12	65/30	3.29	3.6 .142	3.9 .155	4.2 .164	4.4 .172	4.9 .192	5.5 .216	6.1 .240	6.7 .262	7.2 .284	8.4 .332	9.4 .372	9.9 .388	10.2 .402
10	105/30	5.32	4.2 .167	4.6 .180	4.8 .189	5.0 .197	5.5 .217	6.1 .241	6.7 .265	7.3 .287	7.8 .309	9.1 .357	10.1 .397	10.5 .413	10.8 .427

The above list represents standard constructions for UL 3239. Different conductor constructions available on request.

Canadian certified constructions are listed under the 6, 10, 15, 20, 30, 40, and 50kV_{DC} ratings.

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: **HSW-2022-AG-2**

HSW	-	20	-	22	-	AG	-	2
Base Part Designation		Voltage Rating [kV _{DC}]		Conductor Size [AWG]		Silver-Plated, 200°C Rating ¹⁾ (Option)		Color Code

¹⁾ The UL 3239 temperature rating covers 150°C only.

COLOR CODE

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

Preferred colors shown in **bold**. Minimum order quantities may apply.