

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 TPC SPC [n/AWG]	AREA TPC SPC [mm ²]	NOM. OUTER DIAMETER [mm] [inch]												
24	19/36 19/36	0.24 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 19/34	0.36 0.38	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 19/32	0.51 0.61	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 19/30	0.82 0.97	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 19/29	1.32 1.22	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 41/32	2.09 1.31	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 19/25	3.31 3.08	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

Temperature rating for t.p.c. conductor 150°C; temperature range for s.p.c. conductor 200°C (UL 150°C).

Canadian certified constructions are listed under the 6, 10, 15, 20, 30, 40, and 50 kV_{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 (UL150°C) Rating [Option]		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	

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

▪ HSW SERIES CROSS SECTION VIEWS

							
HSW-0510	HSW-0512	HSW-0514	HSW-0516	HSW-0518	HSW-0520	HSW-0522	HSW-0524
							
HSW-0610	HSW-0612	HSW-0614	HSW-0616	HSW-0618	HSW-0620	HSW-0622	HSW-0624
							
HSW-1010	HSW-1012	HSW-1014	HSW-1016	HSW-1018	HSW-1020	HSW-1022	HSW-1024
							
HSW-1510	HSW-1512	HSW-1514	HSW-1516	HSW-1518	HSW-1520	HSW-1522	HSW-1524
							
HSW-2010	HSW-2012	HSW-2014	HSW-2016	HSW-2018	HSW-2020	HSW-2022	HSW-2024
							
HSW-2510	HSW-2512	HSW-2514	HSW-2516	HSW-2518	HSW-2520	HSW-2522	HSW-2524
							
HSW-3010	HSW-3012	HSW-3014	HSW-3016	HSW-3018	HSW-3020	HSW-3022	HSW-3024
							
HSW-3510	HSW-3512	HSW-3514	HSW-3516	HSW-3518	HSW-3520	HSW-3522	HSW-3524
							
HSW-4010	HSW-4012	HSW-4014	HSW-4016	HSW-4018	HSW-4020	HSW-4022	HSW-4024
							
HSW-4510	HSW-4512	HSW-4514	HSW-4516	HSW-4518	HSW-4520	HSW-4522	HSW-4524
							
HSW-5010	HSW-5012	HSW-5014	HSW-5016	HSW-5018	HSW-5020	HSW-5022	HSW-5024
							
HSW-5510	HSW-5512	HSW-5514	HSW-5516	HSW-5518	HSW-5520	HSW-5522	HSW-5524
							
HSW-6010	HSW-6012	HSW-6014	HSW-6016	HSW-6018	HSW-6020	HSW-6022	HSW-6024