

UNSHIELDED SILICONE HIGH VOLTAGE / HIGH TEMPERATURE APPLIANCE WIRE
10kV_{DC} - 50kV_{DC} - AWM STYLE 3239 - INTERNAL USE

FEATURES

- 22 AWG - 10 AWG Conductors
- Conductor Construction: Tinned Copper
- Operating Temperature -50°C - +150°C
- High Flexibility
- Ozone and Corona Resistant
- Meets VW-1 Flame Test
- Made in Germany
- RoHS Compliant

TYPICAL APPLICATIONS

- Internal High Voltage Wiring
- Laser Power Supplies
- CRT / Video Displays

SPECIFICATIONS

Operating Temperature: -50°C - +150°C
Min. Bend Radius (static): 7.5 * Outer Diameter

ORDERING INFORMATION

[Ordering example for part number: **HSU-1012-65-2**]

HSU	-	10	-	12	-	65	-	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	

Preferred colors shown in **bold**. Minimum order quantities may apply. Different conductor constructions and plating for use up to 200°C available on request.

HSU SERIES CROSS SECTION VIEWS

HSU-1022-7-X	HSU-1020-19-X	HSU-1018-19-X	HSU-1016-30-X	HSU-1014-41-X	HSU-1012-65-X	HSU-1010-84-X
HSU-2022-7-X	HSU-2018-19-X	HSU-2012-65-X	HSU-2010-84-X	HSU-3022-7-X	HSU-3020-19-X	HSU-3018-19-X
HSU-3016-19-X	HSU-3014-41-X	HSU-3012-65-X	HSU-3010-37-X	HSU-4022-7-X	HSU-4018-19-X	HSU-4012-65-X
HSU-4010-84-X	HSU-5022-7-X	HSU-5020-19-X	HSU-5018-19-X	HSU-5016-19-X	HSU-5012-65-X	

TYPE OVERVIEW

CONDUCTOR				RATED VOLTAGE [kV _{oc}]									
				10		20		30		40		50	
				OUTER DIAMETER [mm]	TOTAL WEIGHT [kg/km]	OUTER DIAMETER [mm]	TOTAL WEIGHT [kg/km]	OUTER DIAMETER [mm]	TOTAL WEIGHT [kg/km]	OUTER DIAMETER [mm]	TOTAL WEIGHT [kg/km]	OUTER DIAMETER [mm]	TOTAL WEIGHT [kg/km]
SIZE [AWG]	STRANDS [n/AWG]	AREA [mm²]	WEIGHT [kg/km]	2.81-3.16	10.3	3.36-3.79	14.2	3.91-4.42	18.5	4.91-5.47	27.9	5.91-6.52	39.4
24	19/36	0.24	2.3	2.78-3.19	11.3	3.5-3.8	15.8	4.04-4.56	20.5	5.4-5.6	30.8	6.04-6.66	41.9
22	7/30	0.36	3.4	3.01-3.43	14.8	3.64-4.12	19.3	4.27-4.80	24.5	5.27-5.90	35.0	6.27-6.99	46.9
20	19/32	0.62	5.7	3.27-3.71	19.1	3.93-4.34	24.0	4.53-5.07	29.5	5.53-6.12	40.9	6.53-7.17	53.0
18	19/30	0.96	9.3	3.5-3.95	24.0	4.13-4.63	29.0	4.76-5.31	35.0	5.76-6.36	46.0	6.76-7.41	59.0
16	19/29	1.35	13.0	4.01-4.27	32.7	4.64-5.06	38.8	5.27-5.85	47.0	6.27-6.90	58.1	7.27-7.95	72.1
14	41/30	2.08	19.9	4.39-4.88	46.0	5.05-5.51	53.0	5.65-6.25	59.0	6.65-7.3	73.0	7.65-8.35	87.0
12	65/30	3.31	31.5	5.6-6.09	78.0	5.6-6.41	82.0	6.55-7.30	92.6	7.5-8.19	106.0	-	-
10	84/29	5.94	57.0	10		15		20		25		30	
Test Voltage (Spark Test) [kV _{ac}]													

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.