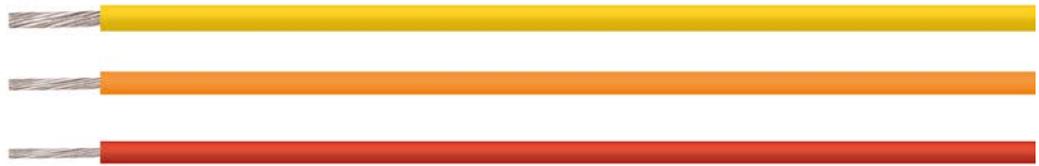


HELUTHERM® SINGLE CORE UL STYLE 3512



Silicone single core, finely stranded, tinned wire, temperature-resistant



TECHNICAL DATA

Single core acc. to UL-Std. 758 (AWM) Style 3512, CSA-Std. C22.2 No. 210 - AWM I A/B

Temperature range	flexible -40°C to +200°C fixed -40°C to +180°C UL (AWM) -40°C to +200°C
Nominal voltage	AC U ₀ /U 600/1000 V UL (AWM) AC 600 V
Test voltage	3000 V
Minimum bending radius	flexible 10x Outer-Ø fixed 8x Outer-Ø

CABLE STRUCTURE

- Copper wire tinned, finely stranded acc. to ASTM-B 33
- Core insulation: silicone
- Core identification: see table

PROPERTIES

- resistant to: ozone, oxygen, alcohols, dilute acids, alkalis, saline solutions, oxidising agents, seawater
- halogen-free

- high flash point

TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2, UL VW-1, CSA FT1, CSA FT2

APPLICATION

Temperature resistant silicone single core for the internal wiring of enclosed appliances; for use in iron, steel and rolling mills, foundries, cement, glass and ceramic factories as well as in aircraft construction and ship building.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- for fixed installation, always install in open, ventilated pipe or duct systems; otherwise, a combination of high temperatures above 90°C and the absence of air would affect the mechanical properties of silicone

Nominal cross-section	AWG, approx.	Outer-Ø min - max mm	Cu-weight kg/km	Weight kg/km, approx.	black	green-yellow	blue	brown	red	white	grey	violet
					Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	
0.5	20	2.4 - 2.8	4.8	11.1	11023478	11023496	11023507	11023525	11023543	11023561	11023579	11023597
0.75	19	2.5 - 2.9	7.2	14.0	11023479	11023497	11023508	11023526	11023544	11023562	11023580	11023598
1	18	2.7 - 3.1	9.6	16.2	11023480	11023498	11023509	11023527	11023545	11023563	11023581	11023599
1.5	16	3.1 - 3.5	14.4	21.6	11023481	11023499	11023510	11023528	11023546	11023564	11023582	11023600
2.5	14	3.5 - 3.9	24.0	32.6	11023482	11023500	11023511	11023529	11023547	11023565	11023583	11023601
4	12	4.0 - 4.4	38.4	49.7	11023483	11023501	11023512	11023530	11023548	11023566	11023584	11023602
6	10	5.5 - 5.9	57.6	79.4	11023484	11023502	11023513	11023531	11023549	11023567	11023585	11023603
10	8	7.1 - 7.7	96.0	133.0	11023485	11023503	11023514	11023532	11023550	11023568	11023586	11023604
16	6	8.8 - 9.4	153.6	207.2	11023486	11023504	11023515	11023533	11023551	11023569	11023587	11023605
25	4	10.3 - 11.1	240.0	308.8	11023487	11023505	11023516	11023534	11023552	11023570	11023588	11023606
35	2	11.5 - 12.3	336.0	413.2	11023488	11023506	11023517	11023535	11023553	11023571	11023589	11023607
50	1	14.4 - 15.2	480.0	616.1	11023489	-	11023518	11023536	11023554	11023572	11023590	11023608
70	2/0	16.2 - 17.0	672.0	826.9	11023490	-	11023519	11023537	11023555	11023573	11023591	11023609
95	3/0	18.3 - 19.3	912.0	1116.6	11023491	-	11023520	11023538	11023556	11023574	11023592	11023610
120	4/0	20.6 - 21.8	1152.0	1402.1	11023492	-	11023521	11023539	11023557	11023575	11023593	11023611
150	300 kcmil	22.8 - 24.0	1440.0	1740.6	11023493	-	11023522	11023540	11023558	11023576	11023594	11023612
185	350 kcmil	25.0 - 26.2	1776.0	2132.7	11023494	-	11023523	11023541	11023559	11023577	11023595	11023613
240	500 kcmil	27.7 - 28.9	2304.0	2699.2	11023495	-	11023524	11023542	11023560	11023578	11023596	11023614

Nominal cross-section	AWG, approx.	Outer-Ø min - max mm	Cu-weight kg/km	Weight kg/km, approx.	yellow	orange	green	pink	beige
					Part no.				
0.5	20	2.4 - 2.8	4.8	11.1	11023669	11023615	11023687	11023633	11023651

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Nominal cross-section	AWG, approx.	Outer-Ø min - max mm	Cu-weight kg/km	Weight kg/km, approx.	yellow	orange	green	pink	beige
					Part no.				
0.75	19	2.5 - 2.9	7.2	14.0	11023670	11023616	11023688	11023634	11023652
1	18	2.7 - 3.1	9.6	16.2	11023671	11023617	11023689	11023635	11023653
1.5	16	3.1 - 3.5	14.4	21.6	11023672	11023618	11023690	11023636	11023654
2.5	14	3.5 - 3.9	24.0	32.6	11023673	11023619	11023691	11023637	11023655
4	12	4.0 - 4.4	38.4	49.7	11023674	11023620	11023692	11023638	11023656
6	10	5.5 - 5.9	57.6	79.4	11023675	11023621	11023693	11023639	11023657
10	8	7.1 - 7.7	96.0	133.0	11023676	11023622	11023694	11023640	11023658
16	6	8.8 - 9.4	153.6	207.2	11023677	11023623	11023695	11023641	11023659
25	4	10.3 - 11.1	240.0	308.8	11023678	11023624	11023696	11023642	11023660
35	2	11.5 - 12.3	336.0	413.2	11023679	11023625	11023697	11023643	11023661
50	1	14.4 - 15.2	480.0	616.1	11023680	11023626	11023698	11023644	11023662
70	2/0	16.2 - 17.0	672.0	826.9	11023681	11023627	11023699	11023645	11023663
95	3/0	18.3 - 19.3	912.0	1116.6	11023682	11023628	11023700	11023646	11023664
120	4/0	20.6 - 21.8	1152.0	1402.1	11023683	11023629	11023701	11023647	11023665
150	300 kcmil	22.8 - 24.0	1440.0	1740.6	11023684	11023630	11023702	11023648	11023666
185	350 kcmil	25.0 - 26.2	1776.0	2132.7	11023685	11023631	11023703	11023649	11023667
240	500 kcmil	27.7 - 28.9	2304.0	2699.2	11023686	11023632	11023704	11023650	11023668

17.10.2023 / We reserve the right to make technical changes; the imprint in the image is purely exemplary