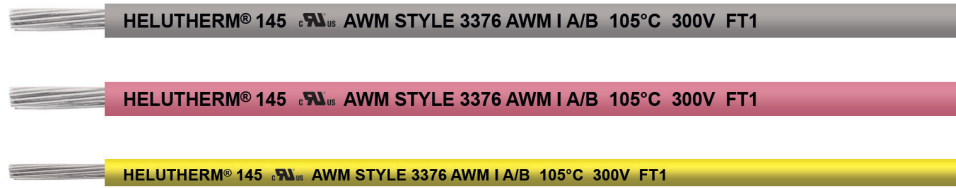


# HELUTHERM® 145 UL/CSA 300V

temperature-resistant, crosslinked, 300 V, AWG sizes



## TECHNICAL DATA

Single core acc. to CSA-Std. C22.2 No. 210 - AWM I A/B, 24 AWG - 16 AWG: UL-Std. 758 (AWM) Style 3376, 14 AWG - 10 AWG: UL-Std. 758 (AWM) Style 3578

<b>Temperature range</b>	flexible -35°C to +120°C fixed -55°C to +145°C UL (AWM) flexible -35°C to +105°C UL (AWM) fixed -55°C to +105°C
<b>Nominal voltage</b>	UL (AWM) AC 300 V
<b>Test voltage</b>	2000 V
<b>Minimum bending radius</b>	flexible 8x Outer-Ø fixed 4x Outer-Ø

- halogen-free
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers
- no fire propagation

## 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 CSA FT1
- bundle fire test acc. to DIN VDE 0482-332-3-24 / DIN EN 60332-3-24 / IEC 60332-3-24
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404, IRM 902 4h at +70°C

## CABLE STRUCTURE

- Copper wire tinned, finely stranded, AWG sizes
- Core insulation: cross-linked polyolefin
- Core identification: see table

## PROPERTIES

- resistant to: oil, UV radiation, ozone, weathering effects
- abrasion-resistant, notch-resistant

## APPLICATION

Temperature resistant single core for the internal wiring of lighting fixtures, heaters, electrical machinery, switching systems and distributors in industrial equipment as well as plant and machinery construction; suitable for laying in tubes, on and under plaster as well as closed installation ducts.

AWG-No.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.	No. of wires	black (RAL 9005)	green-yellow	blue (RAL 5015)	brown (RAL 8003)	red (RAL 3000)	white (RAL 9010)	grey (RAL 7001)	violet (RAL 4005)
					Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	
24	1.5	2.3	4.0	19	61817	61816	61818	61819	61820	61821	61822	61823
22	1.6	3.2	6.0	19	61831	61830	61832	61833	61834	61835	61836	61837
20	1.9	5.0	9.0	19	61845	61844	61846	61847	61848	61849	61850	61851
18	2.1	7.9	12.0	19	61859	61858	61860	61861	61862	61863	61864	61865
16	2.4	12.6	16.0	19	61873	61872	61874	61875	61876	61877	61878	61879
14	3.5	20.7	27.0	19	61887	61886	61888	61889	61890	61891	61892	61893
12	4.2	33.0	36.0	65	61901	61900	61902	61903	61904	61905	61906	61907
10	4.8	51.6	58.0	105	61915	61914	61916	61917	61918	61919	61920	61921

AWG-No.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.	No. of wires	yellow (RAL 1021)	orange (RAL 2003)	green (RAL 6018)	pink (RAL 3015)	beige (RAL 1001)
					Part no.	Part no.	Part no.	Part no.	Part no.
24	1.5	2.3	4.0	19	61824	61825	61826	59339	61828
22	1.6	3.2	6.0	19	61838	61839	61840	61841	61842
20	1.9	5.0	9.0	19	61852	61853	61854	61855	61856
18	2.1	7.9	12.0	19	61866	61867	61868	61869	61870
16	2.4	12.6	16.0	19	61880	61881	61882	61883	61884
14	3.5	20.7	27.0	19	61894	61895	61896	61897	61898
12	4.2	33.0	36.0	65	61908	61909	61910	61911	61912
10	4.8	51.6	58.0	105	61922	61923	61924	61925	61926