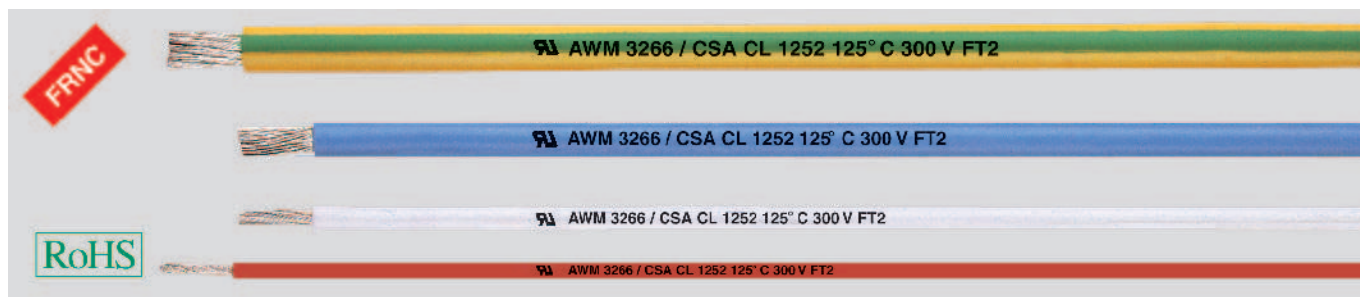


HELUTHERM® 145 300V, flexible single core, electron beam cross-linked, halogen-free



Technical data

- Halogen-free single cores with increased heat resistance according to **UL Style 3266 CSA CL 1252**
- **Temperature range fixed**
flexing -35°C to +120°C
fixed installation -45°C to +145°C
in short circuit +250°C
- **Nominal voltage** U₀/U 300/300 V
- **Test voltage** 2000 V
- **Minimum bending radius**
flexing 12,5x cable Ø
fixed installation 4x cable Ø
- **Caloric load values**
see Technical Informations
- **Power ratings table**
see Technical Informations

Cable construction

- Tinned Cu wires, according to AWG-sizes
Conductor make-up:
AWG 24 to AWG 14 = 19-wires
AWG 12 = 65-wires
AWG 10 = 105-wires
- Core insulation of polyolefin-copolymer, electron beam cross-linked, flame retardant, halogen-free
- Core colours see table below
- **Tests**
Flame test to DIN VDE 0482 Teil 266-2/ HD 405.3, BS 4066 part 3/ EN 50266-2/ IEC 60332-3 (equivalent DIN VDE 0472 part 804 test method C)
Corrosiveness of combustion gases according to DIN VDE 0482 part 267/ EN 50267-2-2/ IEC 60754-2 (equivalent DIN VDE 0472 part 813)
Halogen-free according to DIN VDE 0482 part 267/ EN 50267-2-1/ IEC 60754-1 (equivalent DIN VDE 0472 part 815)
Smoke density to VDE 0482 part 268-1 u. 2, test method C, IEC 61034-1/61034-2, HD 606 and BS 7622 part 1 and 2 (equivalent DIN VDE 0472 part 816)

Properties

- Halogen-free, no liberation of corrosive or toxic vapours, in that way this helps saving valuable time when trying to evacuate a building in a disciplined manner and prevents unnecessary loss of life
- Lower propagation of fire
- Low development of smoke and fumes
- Good abrasion and notch resistance
- Good resistance to oils and weathering
- Resistant to UV radiation and ozone
- Resistant to soldering temperatures
- Thermal class B
- These single-core cables are resistant to melting, even when in contact with a soldering iron at temperatures of between 300°C and 380°C, because of the electron-beam cross-linking for the insulation material
- Due to the high temperature profile the cross-section of conductor can under certain circumstances be reduced, hereby enabling a saving in space requirement and weight
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

These temperature resistant single-core cables are used for the internal wiring of lighting fixtures, heaters, electrical machinery, switching systems and distributors in equipment and plant and machinery, suitable for installation on, in and beneath plaster, in closed installation ducts, as well as for traffic systems and outdoor applications. These cables are not approved for direct routing on racks, gutters or tanks. For a protected installation, these cables may be used at a nominal voltage of up to 1000 V alternating current or a direct current up to 750 V when earthed. The maximum operating d.c. voltage used in rail vehicles shall not exceed 900 V when earthed. These halogen-free single core cables are characterised by their amazingly high long-time resistance to temperature and feature among the leading halogen-free. Flame resistant products in the world.

CE= The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	black 9005	brown 8003	red 3000	white 1013	grey 7000	vio 4005	green 6018	beige 1001	pink 3015	lt-bu 5015	og 2003	ye 1021	gn-ye 6028/1021	2-col.
ca. RAL				61817	61819	61820	61821	61822	61823	61826	61828	61827	61818	61825	61824	61816	61829
Part No. 24	1.5	2,3	4,0	61831	61833	61834	61835	61836	61837	61840	61842	61841	61832	61839	61838	61830	61843
Part No. 22	1.6	3,2	6,0	61845	61847	61848	61849	61850	61851	61854	61856	61855	61846	61853	61852	61844	61857
Part No. 20	1.9	5,0	9,0	61859	61861	61862	61863	61864	61865	61868	61870	61869	61860	61867	61866	61858	61871
Part No. 18	2.1	7,9	12,0	61873	61875	61876	61877	61878	61879	61882	61884	61883	61874	61881	61880	61872	61885
Part No. 16	2.4	12,6	16,0	61887	61889	61890	61891	61892	61893	61896	61898	61897	61888	61895	61894	61886	61899
Part No. 14	2.9	20,7	27,0	61901	61903	61904	61905	61906	61907	61910	61912	61911	61902	61909	61908	61900	61913
Part No. 12	3.3	33,0	36,0	61915	61917	61918	61919	61920	61921	61924	61926	61925	61916	61923	61922	61914	61927
Part No. 10	4.1	51,6	58,0														

Dimensions and specifications may be changed without prior notice.