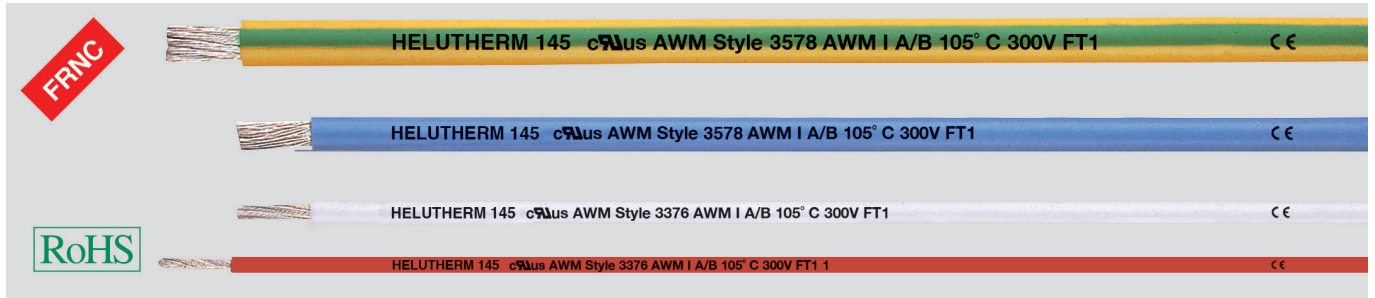


HELUTHERM® 145 300 V, flexible single core, cross-linked, halogen-free



Technical data

- Halogen-free single cores with increased heat resistance acc. to
 - UL-Style 3376 (AWG 24 - AWG 16)
 - UL-Style 3578 (AWG 14 - AWG 10)
 - CSA C22.2 No. 210
- **Temperature range**
 - flexing -35°C to +120°C
 - fixed installation -55°C to +145°C
 - UL/CSA
 - flexing -35°C to +105°C
 - fixed installation -55°C to +105°C
- **Nominal voltage** 300 V
- **Test voltage** 2000 V
- **Minimum bending radius**
 - flexing 12,5x core Ø
 - fixed installation 4x core Ø
- **Caloric load values** see Technical Informations
- **Power ratings table** see Technical Informations
- **Approval** Germanischer Lloyd

Cable structure

- Tinned Cu wires, acc. 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, cross-linked
 - Core colours see table below
- Tests**
- Flame test acc. to
 - DIN VDE 0482-332-3, BS 4066 part 3,
 - DIN EN 60332-3, IEC 60332-3 (previously DIN VDE 0472 part 804 test method C)
 - Corrosiveness of combustion gases acc. to DIN VDE 0482 part 267, DIN EN 50267-2-2, IEC 60754-2 (equivalent DIN VDE 0472 part 813)
 - Halogen-free acc. to
 - DIN VDE 0482 part 267,
 - DIN EN 50267-2-1, IEC 60754-1 (equivalent DIN VDE 0472 part 815)
 - Smoke density acc. to DIN VDE 0482 part 1034-1+2, DIN EN 61034-1+2, IEC 61034-1+2, BS 7622 part 1+2 (previously DIN VDE 0472 part 816)

Properties

- Halogen-free
- 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

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. 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 2006/95/EC.

| AWG-No. | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | BK | GN-YE | BU | BN | RD | WH | GY | VT | YE | PK | GN | OG | BEIGE | 2-col. |
|-------------|-----------------|---------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Part no. 24 | 1,5 | 2,3 | 4,0 | 61817 | 61816 | 61818 | 61819 | 61820 | 61821 | 61822 | 61823 | 61824 | 59339 | 61826 | 61825 | 61828 | 61829 |
| Part no. 22 | 1,6 | 3,2 | 6,0 | 61831 | 61830 | 61832 | 61833 | 61834 | 61835 | 61836 | 61837 | 61838 | 61841 | 61840 | 61839 | 61842 | 61843 |
| Part no. 20 | 1,9 | 5,0 | 9,0 | 61845 | 61844 | 61846 | 61847 | 61848 | 61849 | 61850 | 61851 | 61852 | 61855 | 61854 | 61853 | 61856 | 61857 |
| Part no. 18 | 2,1 | 7,9 | 12,0 | 61859 | 61858 | 61860 | 61861 | 61862 | 61863 | 61864 | 61865 | 61866 | 61869 | 61868 | 61867 | 61870 | 61871 |
| Part no. 16 | 2,4 | 12,6 | 16,0 | 61873 | 61872 | 61874 | 61875 | 61876 | 61877 | 61878 | 61879 | 61880 | 61883 | 61882 | 61881 | 61884 | 61885 |
| Part no. 14 | 3,5 | 20,7 | 27,0 | 61887 | 61886 | 61888 | 61889 | 61890 | 61891 | 61892 | 61893 | 61894 | 61897 | 61896 | 61895 | 61898 | 61899 |
| Part no. 12 | 4,2 | 33,0 | 36,0 | 61901 | 61900 | 61902 | 61903 | 61904 | 61905 | 61906 | 61907 | 61908 | 61911 | 61910 | 61909 | 61912 | 61913 |
| Part no. 10 | 4,8 | 51,6 | 58,0 | 61915 | 61914 | 61916 | 61917 | 61918 | 61919 | 61920 | 61921 | 61922 | 61925 | 61924 | 61923 | 61926 | 61927 |

Dimensions and specifications may be changed without prior notice. (RN06)