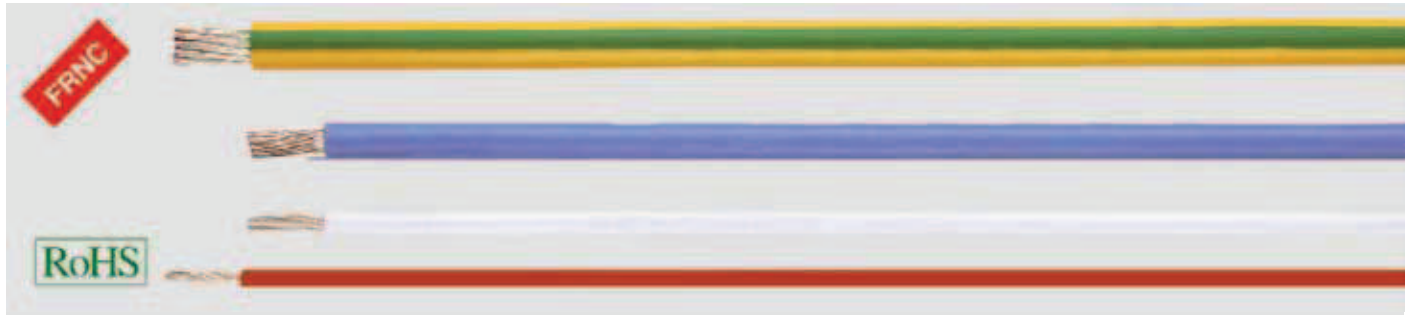


HELUTHERM® 145

flexible, cross-linked, halogen-free, approval: Germanischer Lloyd



Technical data

- Halogen-free single cores with increased heat resistance
- **Temperature range**
flexing -35°C up to +120°C
fixed installation -55°C up to +145°C
- **Nominal voltage**
U₀/U 300/500 V up to 1 mm²
U₀/U 450/750 V from 1.5 mm²
for fixed and protected installation
U₀/U 600/1000 V from 1.5 mm²
- **Test voltage** 3500 V
- **Minimum bending radius**
flexing 12.5x cable Ø
fixed installation 4x cable Ø

Cable structure

- Tinned Cu wires, according to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Core insulation of polyolefin-copolymer, cross-linked
- Core colours see table
- Tests**
 - Flame test according to VDE 0482 part 266-2, BS 4066 part 3/ DIN EN 50266-2/ IEC 60332-3 (equivalent DIN VDE 0472 part 804 test method C)
 - Corrosiveness of combustion gases according to VDE 0482 part 267/ DIN EN 50267-2-2/ IEC 60754-2 (equivalent DIN VDE 0472 part 813)
 - Halogen-free according to VDE 0482 part 267/ DIN EN 50267-2-1/ IEC 60754-1 (equivalent DIN VDE 0472 part 815)
 - Smoke density according to VDE 0482 part 268-1 and 2, test method C, IEC 61034-1/61034-2, HD 606 and BS 7622 part 1 and 2 (DIN VDE 0472 part 816)

Approval: Germanischer Lloyd

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 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. 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. These single core cables significantly contribute to safety and the environment.

CE = The product conforms to the EC Low-Voltage Directive 2006/95/EG.

Cross-sec. mm ²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km																
				black	gn-ye	brown	red	white	grey	vio	dk-bu	ye	Beige	lt-bu	og	green	2-col.		
ca. RAL				50999	50998	51071	51072	51073	51074	51075	51079	51076	51164	51070	51077	51078	51165		
Part No. 0.25	1.4 - 1.8	2.4	4	51167	51166	51169	51170	51171	51172	51173	51177	51174	51178	51168	51175	51176	51179		
Part No. 0.33	1.5 - 1.9	3.2	5	51281	51280	51283	51284	51285	51286	51287	51291	51288	51292	51282	51289	51290	51293		
Part No. 0.5	1.7 - 2.1	4.8	7	51295	51294	51297	51298	51299	51300	51301	51305	51302	51306	51296	51303	51304	51307		
Part No. 0.75	2.0 - 2.4	7.2	11	51309	51308	51311	51312	51313	51314	51315	51319	51316	51320	51310	51317	51318	51321		
Part No. 1	2.3 - 2.7	9.6	14	51323	51322	51325	51326	51327	51328	51329	51333	51330	51334	51324	51331	51332	51335		
Part No. 1.5	2.7 - 3.1	14.4	20	51337	51336	51339	51340	51341	51342	51343	51347	51344	51348	51338	51345	51346	51349		
Part No. 2.5	3.3 - 3.7	24	30	51351	51350	51353	51354	51355	51356	51357	51361	51358	51362	51352	51359	51360	51363		
Part No. 4	4.1 - 4.5	38	47	51365	51364	51367	51368	51369	51370	51371	51375	51372	51376	51366	51373	51374	51377		
Part No. 6	4.8 - 5.2	58	72	51379	51378	51381	51382	51383	51384	51385	51389	51386	51390	51380	51387	51388	51391		
Part No. 10	6.5 - 6.6	96	120	51420	51419	51422	51423	51424	51425	51426	51430	51427	51431	51421	51428	51429	51432		
Part No. 16	7.2 - 7.8	154	182	51434	51433	51436	51437	51438	51439	51440	51444	51441	51445	51435	51442	51443	51446		
Part No. 25	9.4 - 9.8	240	272	51448	51447	51450	51451	51452	51453	51454	51458	51455	51459	51449	51456	51457	51460		
Part No. 35	10.3 - 11.1	336	371	51462	51461	51464	51465	51466	51467	51468	51472	51469	51473	51463	51470	51471	51474		
Part No. 50	12.6 - 13.4	480	530	51476	51475	51478	51479	51480	51481	51482	51486	51483	51487	51477	51484	51485	51488		
Part No. 70	14.7 - 15.4	672	730	51490	51489	51492	51493	51494	51495	51496	51500	51497	51501	51491	51498	51499	51502		
Part No. 95	16.9 - 17.7	912	964	51504	51503	51506	51507	51508	51509	51510	51514	51511	51515	51505	51512	51513	51516		
Part No. 120	18.6 - 19.8	1152	1235	51518	51517	51520	51521	51522	51523	51524	51528	51525	51529	51519	51526	51527	51530		
Part No. 150	20.8 - 22.0	1440	1523	51532	51531	51534	51535	51536	51537	51538	51542	51539	51543	51533	51540	51541	51544		
Part No. 185	23.0 - 24.2	1776	1850	51546	51545	51548	51549	51550	51551	51552	51556	51553	51557	51547	51554	51555	51558		
Part No. 240	26.1 - 27.3	2304	2432																

Dimensions and specifications may be changed without prior notice.