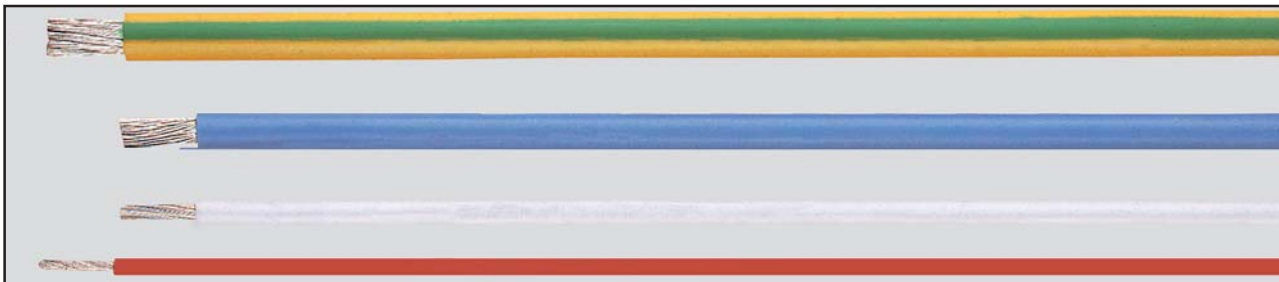


Extreme Temperature Hook-up Wire HELUTHERM 145

Flexible • Electron beam cross linked jacket • Halogen free • -55° – 145° C



 = The product conforms to the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC

TECHNICAL DATA	CABLE CONSTRUCTION	APPLICATIONS
<ul style="list-style-type: none"> - Halogen free single conductors for elevated temperatures - Temperature range Flexing -35° C to +120° C Stationary -55° C to +145° C - Nominal voltage U₀/ U 450/750V ≤ 0.75 mm² (18 AWG) U₀/ U 600/1000V ≥ 1 mm² (17 AWG) - Test voltage 3500 VAC - Minimum bending radius approx. 4 x cable Ø Tests per VDE 0472 - Flame test per part 804 C. IEC 60332-3 and HD 504.3 - Corrosion resistance per part 813 and IEC 60754-2 and HD 602 - Halogen free per part 815 and IEC 60754-1 - Smoke density per VDE 0472 part 816, IEC 61034-1/2, HD 606 and BS 7622 part 1 and 2, test method C <p>Call us for heat rise information. For power rating see back of catalog.</p>	<ul style="list-style-type: none"> - Tinned copper wires per DIN VDE 0295 cl. 5 and IEC 60228 cl. 5. - Conductor insulation electron beam cross linked polyolefin-copolymer. - PVC flame retardant and self-extinguishing. <p>Features</p> <ul style="list-style-type: none"> - Halogen free design prevents formation of toxic and corrosive gases. - Limited fire and smoke propagation. - Abrasion and chafing resistance. - Oil, UV and Ozone resistant. - Resistant to liquid solder and contact with soldering iron = 380° C. - Since the insulation can tolerate elevated temperatures, smaller AWG sizes may be used. 	<p>These temperature resistant wires are used for internal wiring of lighting fixtures, heaters, electrical machinery, control panels and plant installations. They are suitable for installation on, in and under stucco or drywall. They can be used in- and outdoors. Installation in conduit is allowed, however, they are not tray rated and cannot be installed in racks, trays or tanks. When used in a protected environment, they can operate at 1,000 VAC or 750 VDC. These halogen free wires have an amazing tolerance to elevated temperatures and contribute to the safety in installations in critical applications.</p>

Cross Section (mm ²) (AWG)	Nom. O.D. (in) (mm)	Cop. Wt. (kg/km)	Part Number															
			Gn/Yl	Black	Lt. Blue	Brown	Red	White	Grey	Violet	Yellow	Orange	Green	Dk. Blue	Beige	Twintone		
0.25	24	.06	1.6	2.4	50998	50999	51070	51071	51072	51073	51074	51075	51076	51077	51078	51079	51164	51165
0.33	22	.07	1.7	3.0	51166	51167	51168	51169	51170	51171	51172	51173	51174	51175	51176	51177	51178	51179
0.5	20	.07	1.9	4.8	51280	51281	51282	51283	51284	51285	51286	51287	51288	51289	51290	51291	51292	51293
0.75	18	.09	2.2	7.2	51294	51295	51296	51297	51298	51299	51300	51301	51302	51303	51304	51305	51306	51307
1	17	.10	2.5	9.6	51308	51309	51310	51311	51312	51313	51314	51315	51316	51317	51318	51319	51320	51321
1.5	16	.11	2.9	14.4	51322	51323	51324	51325	51326	51327	51328	51329	51330	51331	51332	51333	51334	51335
2.5	14	.14	3.5	24.0	51336	51337	51338	51339	51340	51341	51342	51343	51344	51345	51346	51347	51348	51349
4	12	.17	4.3	38.0	51350	51351	51352	51353	51354	51355	51356	51357	51358	51359	51360	51361	51362	51363
6	10	.21	5.4	58.0	51364	51365	51366	51367	51368	51369	51370	51371	51372	51373	51374	51375	51376	51377
10	8	.26	6.7	96.0	51378	51379	51380	51381	51382	51383	51384	51385	51386	51387	51388	51389	51390	51391
16	6	.33	8.4	154.0	51419	51420	51421	51422	51423	51424	51425	51426	51427	51428	51429	51430	51431	51432
25	4	.40	10.2	240.0	51433	51434	51435	51436	51437	51438	51439	51440	51441	51442	51443	51444	51445	51446
35	2	.46	11.6	336.0	51447	51448	51449	51450	51451	51452	51453	51454	51455	51456	51457	51458	51459	51460
50	1	.54	13.7	480.0	51461	51462	51463	51464	51465	51466	51467	51468	51469	51470	51471	51472	51473	51474
70	2/0	.62	15.8	672.0	51475	51476	51477	51478	51479	51480	51481	51482	51483	51484	51485	51486	51487	51488
95	3/0	.72	18.2	912.0	51489	51490	51491	51492	51493	51494	51495	51496	51497	51498	51499	51500	51501	51502
120	4/0	.80	20.2	1152.0	51503	51504	51505	51506	51507	51508	51509	51510	51511	51512	51513	51514	51515	51516
150	300 MCM	.87	22.1	1440.0	51517	51518	51519	51520	51521	51522	51523	51524	51525	51526	51527	51528	51529	51530
185	350 MCM	.98	24.8	1776.0	51531	51532	51533	51534	51535	51536	51537	51538	51539	51540	51541	51542	51543	51544
240	500 MCM	1.09	27.7	2304.0	51545	51546	51547	51548	51549	51550	51551	51552	51553	51554	51555	51556	51557	51558

NOTES:

- Further sizes and configurations available upon request
- Call with applications which are beyond standard specifications
- AWG sizes approximate. Actual cross sections in mm². See page 96.

Dimensions and specifications may be changed without prior notice.