

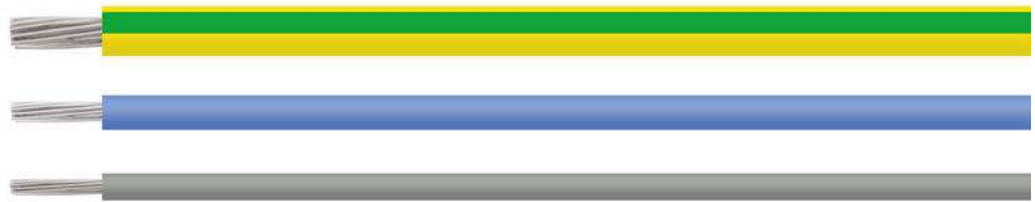
HELUTHERM® 145

temperature-resistant, cross-linked, improved behaviour in case of fire



CORPELIMA S.A.C.

Importadores y Líderes en Soluciones Eléctricas



TECHNICAL DATA

Single core

Temperature range	flexible -35°C to +120°C fixed -55°C to +145°C
Nominal voltage	0.25 - 1 mm²: AC U ₀ /U 300/500 V 1.5 - 240 mm²: AC U ₀ /U 450/750 V 1.5 - 240 mm²: fixed and protected installation AC U ₀ /U 600/1000 V
Test voltage	3500 V
Minimum bending radius	flexible 8x Outer-Ø fixed 4x Outer-Ø

CABLE STRUCTURE

- Copper wire tinned, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: cross-linked polyolefin
- Core identification: see table

PROPERTIES

- resistant to: oil, UV radiation, ozone, weathering effects
- abrasion-resistant, notch-resistant
- for outdoor use
- 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 DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- bundle fire test acc. to DIN VDE 0482-332-3-22 / DIN EN 60332-3-22 / IEC 60332-3-22
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- protection against fire acc. to DIN EN 45545-2
- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404, IRM 902 4h at +70°C
- Certifications:
0.5 - 240 mm²: DNV GL

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, in closed installation ducts, as well as for traffic systems and outdoor applications. Not suitable for direct laying in cable ladders and cable trays, except as a potential equalization cable.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	black (RAL 9005) Part no.	green-yellow Part no.	blue (RAL 5015) Part no.	brown (RAL 8003) Part no.	red (RAL 3000) Part no.	white (RAL 9010) Part no.	grey (RAL 7001) Part no.	purple (RAL 4005) Part no.
0.25	24	1.6	2.4	4.0	50999	50998	51070	51071	51072	51073	51074	51075
0.34	22	1.7	3.2	5.0	51167	51166	51168	51169	51170	51171	51172	51173
0.5	20	1.9	4.8	7.0	51281	51280	51282	51283	51284	51285	51286	51287
0.75	19	2.2	7.2	11.0	51295	51294	51296	51297	51298	51299	51300	51301
1	18	2.5	9.6	14.0	51309	51308	51310	51311	51312	51313	51314	51315
1.5	16	2.9	14.4	20.0	51323	51322	51324	51325	51326	51327	51328	51329
2.5	14	3.5	24.0	30.0	51337	51336	51338	51339	51340	51341	51342	51343
4	12	4.3	38.0	47.0	51351	51350	51352	51353	51354	51355	51356	51357
6	10	5.0	58.0	72.0	51365	51364	51366	51367	51368	51369	51370	51371
10	8	6.3	96.0	120.0	51379	51378	51380	51381	51382	51383	51384	51385
16	6	7.3	154.0	182.0	51420	51419	51421	51422	51423	51424	51425	51426
25	4	9.6	240.0	272.0	51434	51433	51435	51436	51437	51438	51439	51440
35	2	10.8	336.0	371.0	51448	51447	51449	51450	51451	51452	51453	51454
50	1	12.6	480.0	530.0	51462	51461	51463	51464	51465	51466	51467	51468
70	2/0	14.6	672.0	730.0	51476	51475	51477	51478	51479	51480	51481	51482
95	3/0	16.5	912.0	964.0	51490	51489	51491	51492	51493	51494	51495	51496
120	4/0	18.0	1152.0	1235.0	51504	51503	51505	51506	51507	51508	51509	51510

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					black (RAL 9005)	green-yellow	blue (RAL 5015)	brown (RAL 8003)	red (RAL 3000)	white (RAL 9010)	grey (RAL 7001)	purple (RAL 4005)
Cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.
150	300 kcmil	20.0	1440.0	1523.0	51518	51517	51519	51520	51521	51522	51523	51524
185	350 kcmil	22.2	1776.0	1850.0	51532	51531	51533	51534	51535	51536	51537	51538
240	500 kcmil	24.5	2304.0	2432.0	51546	51545	51547	51548	51549	51550	51551	51552

					yellow (RAL 1021)	orange (RAL 2003)	green (RAL 6018)	dark blue (RAL 5010)	beige (RAL 1001)
Cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.	Part no.	Part no.	Part no.	Part no.	Part no.
0.25	24	1.6	2.4	4.0	51076	51077	51078	51079	51164
0.34	22	1.7	3.2	5.0	51174	51175	51176	51177	51178
0.5	20	1.9	4.8	7.0	51288	51289	51290	51291	51292
0.75	19	2.2	7.2	11.0	51302	51303	51304	51305	51306
1	18	2.5	9.6	14.0	51316	51317	51318	51319	51320
1.5	16	2.9	14.4	20.0	51330	51331	51332	51333	51334
2.5	14	3.5	24.0	30.0	51344	51345	51346	51347	51348
4	12	4.3	38.0	47.0	51358	51359	51360	51361	51362
6	10	5.0	58.0	72.0	51372	51373	51374	51375	51376
10	8	6.3	96.0	120.0	51386	51387	51388	51389	51390
16	6	7.3	154.0	182.0	51427	51428	51429	51430	51431
25	4	9.6	240.0	272.0	51441	51442	51443	51444	51445
35	2	10.8	336.0	371.0	51455	51456	51457	51458	51459
50	1	12.6	480.0	530.0	51469	51470	51471	51472	51473
70	2/0	14.6	672.0	730.0	51483	51484	51485	51486	51487
95	3/0	16.5	912.0	964.0	51497	51498	51499	51500	51501
120	4/0	18.0	1152.0	1235.0	51511	51512	51513	51514	51515
150	300 kcmil	20.0	1440.0	1523.0	51525	51526	51527	51528	51529
185	350 kcmil	22.2	1776.0	1850.0	51539	51540	51541	51542	51543
240	500 kcmil	24.5	2304.0	2432.0	51553	51554	51555	51556	51557

