

HELUTHERM® 145

Single core, flexible, cross-linked, halogen-free



Technical data

- Halogen-free single core with increased heat resistance
- **Temperature range**
flexing -35°C to +120°C
fixed installation -55°C to +145°C
- **Nominal voltage**
up to 1 mm² U₀/U 300/500 V
from 1,5 mm² U₀/U 450/750 V
at fixed and protected installation
from 1,5 mm² U₀/U 600/1000 V
- **Test voltage**
3500 V
- **Minimum bending radius**
flexing 8x core Ø
fixed installation 4x core Ø
- **Caloric load values**
see "Technical Information"
- **Current rating**
see "Technical Information"
- **Approval**
DNV GL

Cable structure

- Tinned copper conductor, fine wire acc. to DIN VDE 0295 cl.5 / IEC 60228 cl.5
 - Core insulation: cross-linked polyolefin-copolymer
 - Core identification: see table below
- ### Tests
- Flame test acc. to
DIN VDE 0482-332-3-22 /
DIN EN 60332-3-22 / IEC 60332-3-22
 - Flame test acc. to
DIN VDE 0482-332-1-2 /
DIN EN 60332-1-2 / IEC 60332-1-2
 - 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
 - Smoke density acc. to
DIN VDE 0482-1034-1+2 /
DIN EN 61034-1+2 / IEC 61034-1+2
 - Fire protection on railway vehicles acc. to EN 45545-2

Properties

- No flame propagation
- Good abrasion and notch resistance
- Good resistance to weathering
- Resistant to UV radiation and ozone
- Resistant to melting, even when in contact with a soldering iron with temperatures from 300°C to 380°C
- 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 during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

Application

These temperature resistant single core are used for the internal wiring of lighting fixtures, heaters, electrical machinery, switching systems and distributors in equipment and plant and machinery, 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 equalisation cable. These single core 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 = Product conforms with Low-Voltage Directive 2014/35/EU.

| Cross-sec. mm ² | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | BK | GN-YE | BU | BN | RD | WH | GY | VT | YE | GN | D-BU | OG | BEIGE | 2-col. |
|----------------------------|-----------------|---------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Part no. 0,25 | 1,6 | 2,4 | 4,0 | 50999 | 50998 | 51070 | 51071 | 51072 | 51073 | 51074 | 51075 | 51076 | 51078 | 51079 | 51077 | 51164 | 51165 |
| Part no. 0,34 | 1,7 | 3,2 | 5,0 | 51167 | 51166 | 51168 | 51169 | 51170 | 51171 | 51172 | 51173 | 51174 | 51176 | 51177 | 51175 | 51178 | 51179 |
| Part no. 0,5 | 1,9 | 4,8 | 7,0 | 51281 | 51280 | 51282 | 51283 | 51284 | 51285 | 51286 | 51287 | 51288 | 51290 | 51291 | 51289 | 51292 | 51293 |
| Part no. 0,75 | 2,2 | 7,2 | 11,0 | 51295 | 51294 | 51296 | 51297 | 51298 | 51299 | 51300 | 51301 | 51302 | 51304 | 51305 | 51303 | 51306 | 51307 |
| Part no. 1 | 2,5 | 9,6 | 14,0 | 51309 | 51308 | 51310 | 51311 | 51312 | 51313 | 51314 | 51315 | 51316 | 51318 | 51319 | 51317 | 51320 | 51321 |
| Part no. 1,5 | 2,9 | 14,4 | 20,0 | 51323 | 51322 | 51324 | 51325 | 51326 | 51327 | 51328 | 51329 | 51330 | 51332 | 51333 | 51331 | 51334 | 51335 |
| Part no. 2,5 | 3,5 | 24,0 | 30,0 | 51337 | 51336 | 51338 | 51339 | 51340 | 51341 | 51342 | 51343 | 51344 | 51346 | 51347 | 51345 | 51348 | 51349 |
| Part no. 4 | 4,3 | 38,0 | 47,0 | 51351 | 51350 | 51352 | 51353 | 51354 | 51355 | 51356 | 51357 | 51358 | 51360 | 51361 | 51359 | 51362 | 51363 |
| Part no. 6 | 5,0 | 58,0 | 72,0 | 51365 | 51364 | 51366 | 51367 | 51368 | 51369 | 51370 | 51371 | 51372 | 51374 | 51375 | 51373 | 51376 | 51377 |
| Part no. 10 | 6,3 | 96,0 | 120,0 | 51379 | 51378 | 51380 | 51381 | 51382 | 51383 | 51384 | 51385 | 51386 | 51388 | 51389 | 51387 | 51390 | 51391 |

Continuation ►

HELUTHERM® 145

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| Cross-sec. mm ² | Outer Ø app. mm | Cop. weight kg / km | Weight app. kg / km | BK | GN-YE | BU | BN | RD | WH | GY | VT | YE | GN | D-BU | OG | BEIGE | 2-col. |
|----------------------------|-----------------|---------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Part no. 16 | 7,3 | 154,0 | 182,0 | 51420 | 51419 | 51421 | 51422 | 51423 | 51424 | 51425 | 51426 | 51427 | 51429 | 51430 | 51428 | 51431 | 51432 |
| Part no. 25 | 9,6 | 240,0 | 272,0 | 51434 | 51433 | 51435 | 51436 | 51437 | 51438 | 51439 | 51440 | 51441 | 51443 | 51444 | 51442 | 51445 | 51446 |
| Part no. 35 | 10,8 | 336,0 | 371,0 | 51448 | 51447 | 51449 | 51450 | 51451 | 51452 | 51453 | 51454 | 51455 | 51457 | 51458 | 51456 | 51459 | 51460 |
| Part no. 50 | 12,6 | 480,0 | 530,0 | 51462 | 51461 | 51463 | 51464 | 51465 | 51466 | 51467 | 51468 | 51469 | 51471 | 51472 | 51470 | 51473 | 51474 |
| Part no. 70 | 14,6 | 672,0 | 730,0 | 51476 | 51475 | 51477 | 51478 | 51479 | 51480 | 51481 | 51482 | 51483 | 51485 | 51486 | 51484 | 51487 | 51488 |
| Part no. 95 | 16,5 | 912,0 | 964,0 | 51490 | 51489 | 51491 | 51492 | 51493 | 51494 | 51495 | 51496 | 51497 | 51499 | 51500 | 51498 | 51501 | 51502 |
| Part no. 120 | 18,0 | 1152,0 | 1235,0 | 51504 | 51503 | 51505 | 51506 | 51507 | 51508 | 51509 | 51510 | 51511 | 51513 | 51514 | 51512 | 51515 | 51516 |
| Part no. 150 | 20,0 | 1440,0 | 1523,0 | 51518 | 51517 | 51519 | 51520 | 51521 | 51522 | 51523 | 51524 | 51525 | 51527 | 51528 | 51526 | 51529 | 51530 |
| Part no. 185 | 22,2 | 1776,0 | 1850,0 | 51532 | 51531 | 51533 | 51534 | 51535 | 51536 | 51537 | 51538 | 51539 | 51541 | 51542 | 51540 | 51543 | 51544 |
| Part no. 240 | 24,5 | 2304,0 | 2432,0 | 51546 | 51545 | 51547 | 51548 | 51549 | 51550 | 51551 | 51552 | 51553 | 51555 | 51556 | 51554 | 51557 | 51558 |

Dimensions and specifications may be changed without prior notice. (RK01)

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