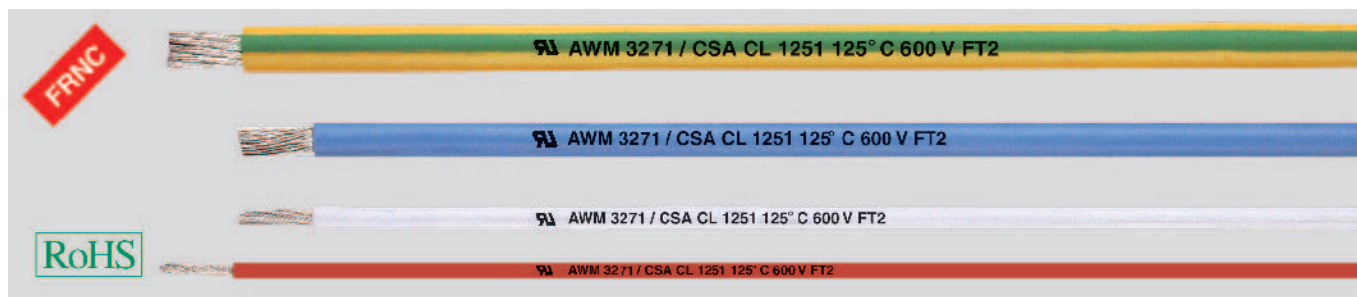


HELUTHERM® 145 600V, flexible single core, eletron beam cross-linked, halogen-free



Technical data

- Halogen-free single cores with increased heat resistance according to **UL Style 3271 CSA CL 1251**
- **Temperature range**
flexing -35°C to +120°C
fixed installation -45°C to +145°C
in short circuit +250°C
- **Nominal voltage** U 600 V
- **Test voltage** 3500 V
- **Minimum bending radius**
flexing 12,5x cable Ø
fixed installation 4x cable Ø
- **Caloric load values**
see Technical Informations
- **Power ratings table**
see Technical Informations

Cable construction

- Tinned Cu wires, according to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Core insulation of polyolefin-copolymer, electron beam cross-linked, flame retardant, halogen-free
- Core colours see table below
- **Tests**
Flame test to DIN VDE 0482 Teil 266-2/ HD 405.3, BS 4066 part 3/ EN 50266-2/ IEC 60332-3 (equivalent DIN VDE 0472 part 804 test method C)
Corrosiveness of combustion gases according to DIN VDE 0482 part 267/ EN 50267-2-2/ IEC 60754-2 (equivalent DIN VDE 0472 part 813)
Halogen-free according to DIN VDE 0482 part 267/ EN 50267-2-1/ IEC 60754-1 (equivalent DIN VDE 0472 part 815)
Smoke density to VDE 0482 part 268-1 u. 2, test method C, IEC 61034-1/61034-2, HD 606 and BS 7622 part 1 and 2 (equivalent DIN VDE 0472 part 816)

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 diciplined 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
- 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 in manufacture are cadmium-free +contain no silicone +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.

CE= The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Cross-section mm² ca. RAL	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.													
				black 9005 59473	brown 8003 59475	red 3000 59476	white 1013 59477	grey 7000 59478	vio 4005 59479	green 6018 59482	beige 1001 59484	pink 3015 59483	lt-bu 5015 59474	og 2003 59481	ye 1021 59480	gn-ye 6028/1021 59472	2-col. 59485
Part No. 0,25	2,3	2,4	7,0	59487 24	59489 20	59490 20	59491 20	59492 20	59493 20	59496 20	59498 20	59497 20	59488 20	59495 20	59494 20	59486 20	59499 20
Part No. 0,5	2,6	4,8	11,0	59501 18	59503 18	59504 18	59505 18	59506 18	59507 18	59510 18	59512 18	59511 18	59502 18	59509 18	59508 18	59500 18	59513 18
Part No. 0,75	2,8	7,2	14,0	59515 17	59517 17	59518 17	59519 17	59520 17	59521 17	59524 17	59526 17	59525 17	59516 17	59523 17	59522 17	59514 17	59527 17
Part No. 1,0	2,9	9,6	17,0	59529 16	59531 16	59532 16	59533 16	59534 16	59535 16	59538 16	59540 16	59539 16	59530 16	59537 16	59536 16	59528 16	59541 16
Part No. 1,5	3,2	14,4	22,0	59543 14	59545 14	59546 14	59547 14	59548 14	59549 14	59552 14	59554 14	59553 14	59544 14	59551 14	59550 14	59542 14	59555 14
Part No. 2,5	3,7	24,0	33,0	59557 12	59559 12	59560 12	59561 12	59562 12	59563 12	59566 12	59568 12	59567 12	59558 12	59565 12	59564 12	59556 12	59569 12
Part No. 4,0	4,2	38,4	53,0	59571 10	59573 10	59574 10	59575 10	59576 10	59577 10	59580 10	59582 10	59581 10	59572 10	59579 10	59578 10	59570 10	59583 10
Part No. 6,0	5,6	57,6	78,0	59585 8	59587 8	59588 8	59589 8	59590 8	59591 8	59594 8	59596 8	59595 8	59586 8	59593 8	59592 8	59584 8	59597 8
Part No. 10,0	7,5	96,0	136,0	59599 6	59601 6	59602 6	59603 6	59604 6	59605 6	59608 6	59610 6	59609 6	59600 6	59607 6	59606 6	59598 6	59611 6
Part No. 16,0	8,5	154,0	203,0	59613 4	59615 4	59616 4	59617 4	59618 4	59619 4	59622 4	59624 4	59623 4	59614 4	59621 4	59620 4	59612 4	59625 4
Part No. 25,0	10,4	240,0	300,0	59627 2	59629 2	59630 2	59631 2	59632 2	59633 2	59636 2	59638 2	59637 2	59628 2	59635 2	59634 2	59626 2	59639 2
Part No. 35,0	11,5	336,0	405,0	59641 1	59643 1	59644 1	59645 1	59646 1	59647 1	59650 1	59652 1	59651 1	59642 1	59649 1	59648 1	59640 1	59653 1
Part No. 50,0	14,4	480,0	580,0														

Dimensions and specifications may be changed without prior notice.