



## DESCAFLEX UL-11027

Halogen-free stranded wires mPPE 105°C 300 V UL/CSA

AWG 28 - AWG 16

Halogen-free, flame retardant stranded wire for the internal wiring of electrical panels, switchgears, electrical and electronic equipment, etc.

A very economical processing of the wires allows the packaging in barrels. They are stackable and feature easy handling and low weight.

|                       |                                                                                                                   |                    |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|--------------------|
| Construction          | Conductors 7-strands (from AWG 18 19-strands),<br>tinned copper<br>Insulation mPPE (modified Polyphenylene Ether) |                    |
| Technical Data        | Rated voltage U <sub>0</sub> /U                                                                                   | 300 V              |
|                       | Test voltage                                                                                                      | 3000 V             |
|                       | Temperature range                                                                                                 | - 10°C ... + 105°C |
|                       | - static installation                                                                                             | - 40°C ... + 105°C |
|                       | Min. bending radius                                                                                               | 6 x outer diameter |
| Standards / Approvals | UL AWM Style 11027 300 V 105°C                                                                                    |                    |
|                       | CSA AWM I A/B 300 V 105°C                                                                                         |                    |

The stranded wires have a good resistance to chemicals and oil. They meet the requirement vertical flame test VW-1 according to UL 1581, a high dielectric strength combined by compact dimensions is guaranteed.

## Technical Information

| Cross section<br>AWG | Outer-Ø<br>ca. mm | Copper<br>kg/km | Weight<br>kg/km |
|----------------------|-------------------|-----------------|-----------------|
| 28                   | 0.85              | 0.90            | 1.45            |
| 26                   | 0.93              | 1.40            | 1.95            |
| 24                   | 1.05              | 2.20            | 2.80            |
| 22                   | 1.20              | 3.40            | 4.15            |
| 20                   | 1.42              | 6.00            | 6.45            |
| 18                   | 1.75              | 8.30            | 10.65           |
| 16                   | 2.00              | 13.00           | 14.65           |

| AWG 28        | black  | blue   | green-yellow | brown  | grey   | dark blue | red    |
|---------------|--------|--------|--------------|--------|--------|-----------|--------|
| <b>PU</b>     |        |        |              |        |        |           |        |
| Spool 305 m   | 161250 | 161253 | 161256       | 161259 | 161262 | 161265    | 161268 |
| Barrel 3000 m | 161251 | 161254 | 161257       | 161260 | 161263 | 161266    | 161269 |

| AWG 28        | white  | green  | orange | violet | yellow | rose   |
|---------------|--------|--------|--------|--------|--------|--------|
| <b>PU</b>     |        |        |        |        |        |        |
| Spool 305 m   | 161271 | 161274 | 161277 | 161280 | 161283 | 161286 |
| Barrel 3000 m | 161272 | 161275 | 161278 | 161281 | 161284 | 161287 |

| AWG 26        | black  | blue   | green-yellow | brown  | grey   | dark blue | red    |
|---------------|--------|--------|--------------|--------|--------|-----------|--------|
| <b>PU</b>     |        |        |              |        |        |           |        |
| Spool 305 m   | 161340 | 161343 | 161346       | 161349 | 161352 | 161355    | 161357 |
| Barrel 3000 m | 161341 | 161344 | 161347       | 161350 | 161353 | 161356    | 161358 |

| AWG 26        | white  | green  | orange | violet | yellow | rose   |
|---------------|--------|--------|--------|--------|--------|--------|
| <b>PU</b>     |        |        |        |        |        |        |
| Spool 305 m   | 161360 | 161363 | 161366 | 161369 | 161373 | 161376 |
| Barrel 3000 m | 161361 | 161364 | 161367 | 161370 | 161374 | 161377 |

| AWG 24        | black  | blue   | green-yellow | brown  | grey   | dark blue | red    |
|---------------|--------|--------|--------------|--------|--------|-----------|--------|
| <b>PU</b>     |        |        |              |        |        |           |        |
| Spool 305 m   | 161430 | 161433 | 161436       | 161439 | 161442 | 161445    | 161448 |
| Barrel 3000 m | 161431 | 161434 | 161437       | 161440 | 161443 | 161446    | 161449 |

| AWG 24        | white  | green  | orange | violet | yellow | rose   |
|---------------|--------|--------|--------|--------|--------|--------|
| <b>PU</b>     |        |        |        |        |        |        |
| Spool 305 m   | 161451 | 161453 | 161456 | 161459 | 161463 | 161466 |
| Barrel 3000 m | 161452 | 161454 | 161457 | 161460 | 161464 | 161467 |

| AWG 22        | black  | blue   | green-yellow | brown  | grey   | dark blue | red    |
|---------------|--------|--------|--------------|--------|--------|-----------|--------|
| <b>PU</b>     |        |        |              |        |        |           |        |
| Spool 305 m   | 161520 | 161523 | 161526       | 161529 | 161533 | 161536    | 161539 |
| Barrel 3000 m | 161521 | 161524 | 161527       | 161530 | 161534 | 161537    | 161540 |

| AWG 22        | white  | green  | orange | violet | yellow | rose   |
|---------------|--------|--------|--------|--------|--------|--------|
| <b>PU</b>     |        |        |        |        |        |        |
| Spool 305 m   | 161552 | 161555 | 161558 | 161562 | 161565 | 161568 |
| Barrel 3000 m | 161553 | 161556 | 161559 | 161563 | 161566 | 161569 |

| AWG 20        | black  | blue   | green-yellow | brown  | grey   | dark blue | red    |
|---------------|--------|--------|--------------|--------|--------|-----------|--------|
| <b>PU</b>     |        |        |              |        |        |           |        |
| Spool 305 m   | 161610 | 161613 | 161616       | 161619 | 161622 | 161625    | 161628 |
| Barrel 3000 m | 161611 | 161614 | 161617       | 161620 | 161623 | 161626    | 161629 |

| AWG 20        | white  | green  | orange | violet | yellow | rose   |
|---------------|--------|--------|--------|--------|--------|--------|
| <b>PU</b>     |        |        |        |        |        |        |
| Spool 305 m   | 161631 | 161634 | 161637 | 161640 | 161643 | 161646 |
| Barrel 3000 m | 161632 | 161635 | 161638 | 161641 | 161644 | 161647 |

| AWG 18        | black  | blue   | green-yellow | brown  | grey   | dark blue | red    |
|---------------|--------|--------|--------------|--------|--------|-----------|--------|
| <b>PU</b>     |        |        |              |        |        |           |        |
| Spool 305 m   | 161700 | 161703 | 161706       | 161709 | 161712 | 161715    | 161718 |
| Barrel 1500 m | 161701 | 161704 | 161707       | 161710 | 161713 | 161716    | 161719 |

| AWG 18        | white  | green  | orange | violet | yellow | rose   |
|---------------|--------|--------|--------|--------|--------|--------|
| <b>PU</b>     |        |        |        |        |        |        |
| Spool 305 m   | 161721 | 161724 | 161727 | 161730 | 161733 | 161736 |
| Barrel 1500 m | 161722 | 161725 | 161728 | 161731 | 161734 | 161737 |

| AWG 16        | black  | blue   | green-yellow | brown  | grey   | dark blue | red    |
|---------------|--------|--------|--------------|--------|--------|-----------|--------|
| <b>PU</b>     |        |        |              |        |        |           |        |
| Spool 305 m   | 161790 | 161793 | 161796       | 161799 | 161802 | 161805    | 161808 |
| Barrel 1500 m | 161791 | 161794 | 161797       | 161800 | 161803 | 161806    | 161809 |

| AWG 16        | white  | green  | orange | violet | yellow | rose   |
|---------------|--------|--------|--------|--------|--------|--------|
| <b>PU</b>     |        |        |        |        |        |        |
| Spool 305 m   | 161811 | 161814 | 161817 | 161820 | 161823 | 161826 |
| Barrel 1500 m | 161812 | 161815 | 161818 | 161821 | 161824 | 161824 |

| Packaging     | Dimension               |
|---------------|-------------------------|
| Spool 305 m   | 160 x 60 x centre 26 mm |
| Barrel 3000 m | 310 x 340 mm            |
| Barrel 1500 m | 310 x 340 mm            |

| Stock availability                                                                            |
|-----------------------------------------------------------------------------------------------|
| Item numbers marked in <b>bold</b> are generally available from stock, subject to prior sale. |