



# E-YCY

## PVC/PVC copper energy cables, screened

COPPER 0,6/1 kV, SCREENED OR ARMoured

Power distribution and control cables in power stations, industrial installations and switchgears, as well as in local mains. For fixed installation underground, in interior premises, cable ducts, in the open air and in water – as permitted by the local building regulations – if protection against shock hazard in the event of mechanical damage or electrical screening is required.



### TECHNICAL DATA

|                                                                                                                                                                      |                                                                                                                                                                                 |                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>Standard</b><br>ÖVE/ONORM E 8200–603 (HD 603)<br>ÖVE/ONORM E 8200–627 (HD 627) |  <b>Rated Voltage</b><br>0,6/1 kV                                                            |  <b>Core identification</b><br>HD 308 S2                                                                                                                                           |
|  <b>Certificate</b><br>ÖVE Austria                                                 |  <b>Bending radius (min.)</b><br>12 x Ø of cable (multicore)<br>15 x Ø of cable (singlecore) |  <b>Temperature range</b><br>Laying temperature: min. –5°C<br>Operating temperature: –50°C up to 70°C<br>Conductor temperature: max. 70°C<br>Short circuit temperature: max. 160°C |
|  <b>Test Voltage</b><br>core/core 4 kV / 50 Hz                                     |  <b>Fire properties</b><br>EN 60332–1–2: self-extinguishing<br>CPR classification: Eca       |                                                                                                                                                                                                                                                                         |

### DESIGN



- 1 Copper conductor, round solid (RE) resp. round stranded (RM)
- 2 Core insulation (PVC)
- 3 Inner covering (EPDM)
- 4 Concentric screen (bare copper wires) and counter helix (copper tape) and optional plastic tape
- 5 Sheath (PVC black, UV-resistant)

| Number of cores x nominal cross-section / cross-section of screen (mm <sup>2</sup> ) | Max. conductor resistance (Ω/km) | Current rating in the earth (A) | Current rating in the air (A) | Outer diameter appr. (mm) | Total weight appr. (kg/km) |
|--------------------------------------------------------------------------------------|----------------------------------|---------------------------------|-------------------------------|---------------------------|----------------------------|
| 2 x 1.5 RE / 1.5                                                                     | 12.1                             | 32                              | 20                            | 13.5                      | 238                        |
| 2 x 1.5 RE / 16                                                                      | 12.1                             | 32                              | 20                            | 14.2                      | 316                        |
| 3 x 1.5 RE / 1.5                                                                     | 12.1                             | 27                              | 20                            | 13.9                      | 261                        |
| 3 x 1.5 RE / 6                                                                       | 12.1                             | 27                              | 20                            | 14.5                      | 309                        |
| 3 x 1.5 RE / 16                                                                      | 12.1                             | 27                              | 20                            | 14.9                      | 331                        |
| 4 x 1.5 RE / 1.5                                                                     | 12.1                             | 27                              | 20                            | 14.6                      | 293                        |
| 4 x 1.5 RE / 16                                                                      | 12.1                             | 27                              | 20                            | 15.6                      | 427                        |
| 5 x 1.5 RE / 1.5                                                                     | 12.1                             | 19                              | 14                            | 15.5                      | 327                        |
| 5 x 1.5 RE / 16                                                                      | 12.1                             | 19                              | 14                            | 16.2                      | 376                        |
| 7 x 1.5 RE / 1.5                                                                     | 12.1                             | 16                              | 12                            | 16.7                      | 401                        |
| 7 x 1.5 RE / 2.5                                                                     | 12.1                             | 16                              | 12                            | 16.7                      | 410                        |
| 7 x 1.5 RE / 6                                                                       | 12.1                             | 16                              | 12                            | 17.3                      | 448                        |
| 7 x 1.5 RE / 16                                                                      | 12.1                             | 16                              | 12                            | 17.7                      | 535                        |
| 10 x 1.5 RE / 2.5                                                                    | 12.1                             | 13                              | 10                            | 19.6                      | 548                        |
| 10 x 1.5 RE / 6                                                                      | 12.1                             | 13                              | 10                            | 20.2                      | 586                        |
| 10 x 1.5 RE / 16                                                                     | 12.1                             | 13                              | 10                            | 20.6                      | 674                        |
| 12 x 1.5 RE / 1.5                                                                    | 12.1                             | 12                              | 10                            | 20.0                      | 581                        |
| 12 x 1.5 RE / 2.5                                                                    | 12.1                             | 12                              | 10                            | 20.0                      | 590                        |
| 12 x 1.5 RE / 16                                                                     | 12.1                             | 12                              | 10                            | 21.0                      | 716                        |
| 14 x 1.5 RE / 4                                                                      | 12.1                             | 12                              | 9                             | 21.3                      | 660                        |
| 14 x 1.5 RE / 16                                                                     | 12.1                             | 12                              | 9                             | 21.7                      | 767                        |
| 16 x 1.5 RE / 4                                                                      | 12.1                             | 11                              | 9                             | 22.3                      | 586                        |
| 16 x 1.5 RE / 16                                                                     | 12.1                             | 11                              | 9                             | 23.2                      | 721                        |
| 19 x 1.5 RE / 1.5                                                                    | 12.1                             | 11                              | 9                             | 22.4                      | 772                        |
| 19 x 1.5 RE / 4                                                                      | 12.1                             | 11                              | 9                             | 23.0                      | 799                        |
| 19 x 1.5 RE / 6                                                                      | 12.1                             | 11                              | 9                             | 23.0                      | 819                        |
| 19 x 1.5 RE / 16                                                                     | 12.1                             | 11                              | 9                             | 23.4                      | 904                        |
| 24 x 1.5 RE / 1.5                                                                    | 12.1                             | 9                               | 8                             | 25.7                      | 988                        |
| 24 x 1.5 RE / 6                                                                      | 12.1                             | 9                               | 8                             | 26.3                      | 1036                       |
| 24 x 1.5 RE / 16                                                                     | 12.1                             | 9                               | 8                             | 26.7                      | 1119                       |
| 30 x 1.5 RE / 16                                                                     | 12.1                             | 8                               | 7                             | 27.8                      | 1250                       |
| 37 x 1.5 RE / 6                                                                      | 12.1                             | 8                               | 7                             | 29.1                      | 1345                       |
| 37 x 1.5 RE / 16                                                                     | 12.1                             | 8                               | 7                             | 29.5                      | 1426                       |
| 44 x 1.5 RE / 16                                                                     | 12.1                             | 7                               | 6                             | 32.4                      | 1671                       |
| 48 x 1.5 RE / 16                                                                     | 12.1                             | 7                               | 6                             | 32.8                      | 1746                       |
| 61 x 1.5 RE / 16                                                                     | 12.1                             | 7                               | 6                             | 33.5                      | 1951                       |
| 2 x 2.5 RE / 2.5                                                                     | 7.41                             | 42                              | 27                            | 14.2                      | 286                        |
| 2 x 2.5 RE / 16                                                                      | 7.41                             | 42                              | 27                            | 15.2                      | 412                        |
| 3 x 2.5 RE / 2.5                                                                     | 7.41                             | 36                              | 25                            | 14.7                      | 318                        |
| 3 x 2.5 RE / 16                                                                      | 7.41                             | 36                              | 25                            | 15.7                      | 444                        |
| 4 x 2.5 RE / 2.5                                                                     | 7.41                             | 36                              | 25                            | 15.6                      | 361                        |
| 4 x 2.5 RE / 6                                                                       | 7.41                             | 36                              | 25                            | 16.2                      | 400                        |
| 4 x 2.5 RE / 16                                                                      | 7.41                             | 36                              | 25                            | 16.6                      | 487                        |
| 5 x 2.5 RE / 2.5                                                                     | 7.41                             | 25                              | 19                            | 16.5                      | 407                        |
| 5 x 2.5 RE / 16                                                                      | 7.41                             | 25                              | 19                            | 17.5                      | 533                        |
| 7 x 2.5 RE / 2.5                                                                     | 7.41                             | 21                              | 17                            | 17.9                      | 505                        |
| 7 x 2.5 RE / 6                                                                       | 7.41                             | 21                              | 17                            | 18.5                      | 543                        |
| 7 x 2.5 RE / 16                                                                      | 7.41                             | 21                              | 17                            | 18.9                      | 630                        |
| 10 x 2.5 RE / 4                                                                      | 7.41                             | 18                              | 14                            | 21.7                      | 704                        |
| 10 x 2.5 RE / 16                                                                     | 7.41                             | 18                              | 14                            | 22.1                      | 812                        |
| 12 x 2.5 RE / 4                                                                      | 7.41                             | 17                              | 13                            | 22.2                      | 765                        |
| 12 x 2.5 RE / 16                                                                     | 7.41                             | 17                              | 13                            | 22.6                      | 876                        |



| Number of cores x nominal cross-section / cross-section of screen (mm <sup>2</sup> ) | Max. conductor resistance (Ω/km) | Current rating in the earth (A) | Current rating in the air (A) | Outer diameter appr. (mm) | Total weight appr. (kg/km) |
|--------------------------------------------------------------------------------------|----------------------------------|---------------------------------|-------------------------------|---------------------------|----------------------------|
| 14 x 2.5 RE / 16                                                                     | 7.41                             | 16                              | 13                            | 23.4                      | 948                        |
| 16 x 2.5 RE / 6                                                                      | 7.41                             | 15                              | 12                            | 22.1                      | 831                        |
| 16 x 2.5 RE / 16                                                                     | 7.41                             | 15                              | 12                            | 23.1                      | 1101                       |
| 19 x 2.5 RE / 6                                                                      | 7.41                             | 14                              | 11                            | 25.3                      | 1077                       |
| 19 x 2.5 RE / 16                                                                     | 7.41                             | 12                              | 11                            | 25.7                      | 1160                       |
| 24 x 2.5 RE / 6                                                                      | 7.41                             | 12                              | 10                            | 28.6                      | 1338                       |
| 24 x 2.5 RE / 10                                                                     | 7.41                             | 12                              | 10                            | 29.0                      | 1369                       |
| 24 x 2.5 RE / 16                                                                     | 7.41                             | 12                              | 10                            | 29.0                      | 1420                       |
| 30 x 2.5 RE / 6                                                                      | 7.41                             | 11                              | 9                             | 29.9                      | 1527                       |
| 30 x 2.5 RE / 16                                                                     | 7.41                             | 11                              | 9                             | 30.3                      | 1608                       |
| 37 x 2.5 RE / 16                                                                     | 7.41                             | 11                              | 9                             | 31.3                      | 1971                       |
| 48 x 2.5 RE / 16                                                                     | 7.41                             | 9                               | 8                             | 34.5                      | 2441                       |
| 2 x 4 RE / 4                                                                         | 4.61                             | 54                              | 37                            | 16.5                      | 383                        |
| 2 x 4 RE / 16                                                                        | 4.61                             | 54                              | 37                            | 16.9                      | 491                        |
| 3 x 4 RE / 4                                                                         | 4.61                             | 46                              | 34                            | 17.1                      | 431                        |
| 4 x 4 RE / 4                                                                         | 4.61                             | 46                              | 34                            | 18.1                      | 493                        |
| 4 x 4 RE / 16                                                                        | 4.61                             | 46                              | 34                            | 18.5                      | 601                        |
| 5 x 4 RE / 4                                                                         | 4.61                             | 32                              | 25                            | 19.3                      | 561                        |
| 5 x 4 RE / 16                                                                        | 4.61                             | 32                              | 25                            | 19.7                      | 669                        |
| 7 x 4 RE / 4                                                                         | 4.61                             | 28                              | 21                            | 20.9                      | 700                        |
| 7 x 4 RE / 16                                                                        | 4.61                             | 28                              | 21                            | 21.3                      | 808                        |
| 10 x 4 RE / 6                                                                        | 4.61                             | 25                              | 18                            | 25.4                      | 1019                       |
| 14 x 4 RE / 16                                                                       | 4.61                             | 24                              | 17                            | 27.5                      | 1304                       |
| 2 x 6 RE / 6                                                                         | 3.08                             | 68                              | 48                            | 17.5                      | 470                        |
| 2 x 6 RE / 16                                                                        | 3.08                             | 68                              | 48                            | 16.1                      | 481                        |
| 3 x 6 RE / 6                                                                         | 3.08                             | 58                              | 43                            | 18.2                      | 535                        |
| 4 x 6 RE / 6                                                                         | 3.08                             | 58                              | 43                            | 19.3                      | 618                        |
| 4 x 6 RE / 16                                                                        | 3.08                             | 58                              | 43                            | 19.7                      | 705                        |
| 5 x 6 RE / 16                                                                        | 3.08                             | 41                              | 32                            | 21.0                      | 794                        |
| 2 x 10 RE / 16                                                                       | 1.83                             | 90                              | 66                            | 19.9                      | 702                        |
| 4 x 10 RE / 16                                                                       | 1.83                             | 78                              | 59                            | 22.1                      | 933                        |
| 4 x 10 RM / 16                                                                       | 1.83                             | 78                              | 59                            | 20.7                      | 876                        |
| 5 x 10 RM / 16                                                                       | 1.83                             | 55                              | 44                            | 23.8                      | 1021                       |
| 2 x 16 RE / 10                                                                       | 1.15                             | 116                             | 89                            | 19.6                      | 806                        |
| 3 x 16 RE / 10                                                                       | 1.15                             | 101                             | 78                            | 21.1                      | 941                        |
| 4 x 16 RE / 10                                                                       | 1.15                             | 101                             | 78                            | 24.7                      | 1189                       |
| 4 x 16 RE / 16                                                                       | 1.15                             | 101                             | 78                            | 24.4                      | 1141                       |
| 5 x 16 RM / 16                                                                       | 1.15                             | 71                              | 59                            | 26.1                      | 1381                       |
| 3 x 25 RM / 16                                                                       | 0.727                            | 132                             | 105                           | 25.1                      | 1421                       |
| 4 x 25 RM / 16                                                                       | 0.727                            | 132                             | 105                           | 28.2                      | 1641                       |

## CONTACT PERSON

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