

**RE-2Y(St)Yv****DATA TRANSMISSION CABLE****APPLICATIONS**

**RE-2Y(St)Yv** are multipair, overall shielded cables intended for control and instrumentation circuits, for signal, monitoring and data processing systems and for analogue or digital data transmission, all in industrial electronics applications.

High digital data transmission performance is achieved by polyethylene insulation and small capacitance of cable circuits.

The cables are protected by an overall electrostatic shield against external electric interferences.

The cables are suitable for indoor and outdoor installations in dry and wet locations, also for direct earth burial.

Cable outer sheath is oil-resistant.

**CONSTRUCTION**

- flexible, multiwire conductors, stranded of bare annealed copper wires (tin-plated on request), meeting requirements of class 2 per PN-EN 60228,
- polyethylene (PE) insulation - identification colour code:
  - "a" wire – black insulation and white pair number printed on it,
  - "b" wire – white insulation and black pair number printed on it,
- insulated conductors twisted into pairs,
- pairs and an orange communication conductor laid-up into a cable core,
- cable core wrapped in polyester tape,
- overall electrostatic shield incorporating aluminium-polyester tape and stranded annealed tinned copper drain wire,
- enhanced PVC cable sheath, black RAL 9005 or blue RAL 5015 (for intrinsically safe circuits).

**AVAILABLE UPON REQUEST**

**RE-2Y(St)Yv-O** - cables designed for frequent contact with petroleum products, as in petrol stations and stores, where engine fuels and lubricants are pumped or handled. The cable sheath is then made of special PVC compound meeting oil resistance requirements of Polish standard PN-EN 60811-404.

## RE-2Y(St)Yv

### CHARACTERISTICS

|                                          |                 |            |             |            |
|------------------------------------------|-----------------|------------|-------------|------------|
| Conductor cross-section                  | mm <sup>2</sup> | <b>0.5</b> | <b>0.75</b> | <b>1.3</b> |
| DC loop resistance at 20°C, maximum      | Ω/km            | 78.0       | 52.0        | 28.4       |
| Mutual capacitance at 1 kHz, approximate | nF/km           | 60         | 65          | 75         |

Operating voltage, peak value 300 V  
Voltage test 2.0 kV rms  
Insulation resistance, minimum 5 GΩ·km  
Inductance, approximate 0.7 mH/km

Operating temperature range  
for fixed installation from - 30 to + 80°C  
for movable installation from - 5 to + 50°C  
Minimum bending radius 10 x cable diameter  
Cable combustibility flame retardant  
Combustibility tests PN-EN 60332-1-2, IEC 60332-1-2  
Reference standards PN-EN 50288-7

**CE = the cable meets requirements of the low voltage directive 2014/35/EU**

| Product No. | Number of pairs (x 2) x conductor cross-section | Cable outer diameter (appr.) | Copper index | Cable weight (appr.) |
|-------------|-------------------------------------------------|------------------------------|--------------|----------------------|
|             | mm <sup>2</sup>                                 | mm                           | kg/km        | kg/km                |
| 0575 006    | 1 x 2 x 0,5                                     | 6.4                          | 19.2         | 58                   |
| 0575 007    | 2 x 2 x 0,5                                     | 8.6                          | 28.8         | 88                   |
| 0575 008    | 4 x 2 x 0,5                                     | 9.7                          | 48.0         | 114                  |
| 0575 019    | 6 x 2 x 0,5                                     | 11.3                         | 67.2         | 147                  |
| 0575 027    | 8 x 2 x 0,5                                     | 11.9                         | 86.4         | 174                  |
| 0575 040    | 10 x 2 x 0,5                                    | 13.3                         | 105.6        | 207                  |
| 0575 009    | 12 x 2 x 0,5                                    | 13.9                         | 124.8        | 233                  |
| 0575 041    | 26 x 2 x 0,5                                    | 18.9                         | 259.2        | 425                  |
| 0575 042    | 20 x 2 x 0,5                                    | 17.0                         | 201.6        | 344                  |
| 0575 043    | 24 x 2 x 0,5                                    | 18.3                         | 240.0        | 398                  |
| 0575 005    | 1 x 2 x 0,75                                    | 7.0                          | 24.0         | 69                   |
| 0575 011    | 2 x 2 x 0,75                                    | 9.6                          | 38.4         | 111                  |
| 0575 012    | 4 x 2 x 0,75                                    | 10.9                         | 67.2         | 145                  |
| 0575 004    | 6 x 2 x 0,75                                    | 12.7                         | 96.0         | 192                  |
| 0575 013    | 8 x 2 x 0,75                                    | 13.5                         | 124.8        | 232                  |
| 0575 044    | 10 x 2 x 0,75                                   | 15.2                         | 153.6        | 278                  |

| Product No. | Number of pairs (x 2) x conductor cross-section | Cable outer diameter (appr.) | Copper index | Cable weight (appr.) |
|-------------|-------------------------------------------------|------------------------------|--------------|----------------------|
|             | mm <sup>2</sup>                                 | mm                           | kg/km        | kg/km                |
| 0575 014    | 12 x 2 x 0,75                                   | 15.8                         | 182.4        | 315                  |
| 0575 003    | 16 x 2 x 0,75                                   | 17.7                         | 240.0        | 397                  |
| 0575 002    | 20 x 2 x 0,75                                   | 19.4                         | 297.6        | 477                  |
| 0575 022    | 24 x 2 x 0,75                                   | 21.0                         | 355.2        | 557                  |
| 0575 017    | 1 x 2 x 1,3                                     | 8.0                          | 34.6         | 90                   |
| 0575 015    | 2 x 2 x 1,3                                     | 11.3                         | 59.5         | 148                  |
| 0575 031    | 3 x 2 x 1,3                                     | 11.9                         | 84.5         | 173                  |
| 0575 016    | 4 x 2 x 1,3                                     | 13.0                         | 109.4        | 211                  |
| 0575 026    | 6 x 2 x 1,3                                     | 15.3                         | 159.4        | 286                  |
| 0575 023    | 8 x 2 x 1,3                                     | 16.3                         | 209.3        | 353                  |
| 0575 025    | 10 x 2 x 1,3                                    | 18.4                         | 259.2        | 427                  |
| 0575 001    | 12 x 2 x 1,3                                    | 19.2                         | 309.1        | 490                  |
| 0575 029    | 16 x 2 x 1,3                                    | 21.9                         | 409.0        | 635                  |
| 0575 035    | 20 x 2 x 1,3                                    | 24.0                         | 508.8        | 769                  |
| 0575 018    | 24 x 2 x 1,3                                    | 26.2                         | 608.6        | 913                  |

Other cross-sections and pair counts available on request.

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.