



# Low Voltage Cables

Product Catalogue

YSLY-OZ/JZ YSLY-OB/JB

2024

## CONSTRUCTION

|                                    |                                                           |
|------------------------------------|-----------------------------------------------------------|
| Based on:                          | DIN-VDE 0245                                              |
| Conductor:                         | Flexible fine copper wires according to IEC 60228 Class 5 |
| Insulation:                        | PVC compound TI2 quality according to EN 50363-3          |
| Outer Sheath:                      | PVC compound TM2 quality according to EN 50363-4-1        |
| Nominal Voltage U <sub>0</sub> /U: | 300/500 V                                                 |
| Test Voltage:                      | 4000 V                                                    |
| Rated Temperature:                 | -5°C – 60°C                                               |
| Max Temperature:                   | 70°C                                                      |
| Bending Radius:                    | 6 x D (outer diameter)                                    |
| Flame Retardant:                   | according to IEC 60332-1-2                                |
| Sheath Colour:                     | Grey                                                      |



## APPLICATIONS

This is a flexible PVC cable resistant to flame and medium mechanical stress. It is suitable for use indoor covered and dry conditions. Installation is apt for signal and control applications.

## CORE IDENTIFICATION

|          |                            |                    |
|----------|----------------------------|--------------------|
| YSLY-OZ: | Black with white numbering |                    |
| YSLY-JZ: | Black with white numbering | ● Green-and-Yellow |
| YSLY-OB: | VDE 0293 HD 308            |                    |
| YSLY-JB: | VDE 0293 HD 308            | ● Green-and-Yellow |

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## DATASHEET

| NOMINAL SIZE | GOLDBERG NUMBER | NOMINAL INSULATION THICKNESS | MEAN OVERALL DIAMETER | RESISTANCE OF CONDUCTOR AT 20°C |
|--------------|-----------------|------------------------------|-----------------------|---------------------------------|
| mm²          |                 | mm                           | mm                    | Ω/km                            |
| 2 x 0.5      | GB50250         | 0.40                         | 4.5 – 5.5             | 39.0                            |
| 2 x 0.75     | GB50275         | 0.40                         | 4.9 – 5.9             | 26.0                            |
| 2 x 1        | GB50210         | 0.50                         | 5.6 – 6.6             | 19.5                            |
| 2 x 1.5      | GB50215         | 0.50                         | 6.1 – 7.1             | 13.3                            |
| 2 x 2.5      | GB50225         | 0.60                         | 7.6 – 8.6             | 7.98                            |
| 2 x 4        | GB50240         | 0.70                         | 9.0 – 10.0            | 4.95                            |
| 2 x 6        | GB50260         | 0.70                         | 10.9 – 5.5            | 3.30                            |
| 3 x 0.5      | GB50350         | 0.40                         | 4.8 – 5.8             | 39.0                            |
| 3 x 0.75     | GB50375         | 0.40                         | 5.2 – 6.2             | 26.0                            |
| 3 x 1        | GB50310         | 0.50                         | 6.0 – 7.0             | 19.5                            |
| 3 x 1.5      | GB50315         | 0.50                         | 6.5 – 7.5             | 13.3                            |
| 3 x 2.5      | GB50325         | 0.60                         | 8.1 – 9.1             | 7.98                            |
| 3 x 4        | GB50340         | 0.70                         | 9.3 – 10.9            | 4.95                            |
| 3 x 6        | GB50360         | 0.70                         | 11.0 – 12.6           | 3.30                            |
| 4 x 0.5      | GB50450         | 0.40                         | 5.2 – 6.2             | 39.0                            |
| 4 x 0.75     | GB50475         | 0.40                         | 6.7 – 6.7             | 26.0                            |
| 4 x 1        | GB50410         | 0.50                         | 6.6 – 7.6             | 19.5                            |
| 4 x 1.5      | GB50415         | 0.50                         | 7.2 – 8.2             | 13.3                            |
| 4 x 2.5      | GB50425         | 0.60                         | 8.9 – 9.9             | 7.98                            |
| 4 x 4        | GB50440         | 0.70                         | 10.5 – 12.1           | 4.95                            |
| 4 x 6        | GB50460         | 0.70                         | 12.2 – 13.8           | 3.30                            |

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|--------------|-----------------|------------------------------|-----------------------|---------------------------------|
| mm²          |                 | mm                           | mm                    | Ω/km                            |
| 5 x 0.5      | GB50550         | 0.4                          | 5.7 – 6.7             | 39.0                            |
| 5 x 0.75     | GB50575         | 0.4                          | 6.3 – 7.3             | 26.0                            |
| 5 x 1        | GB50510         | 0.5                          | 7.2 – 8.2             | 19.5                            |
| 5 x 1.5      | GB50515         | 0.5                          | 7.9 – 8.9             | 13.3                            |
| 5 x 2.5      | GB50525         | 0.6                          | 9.6 – 11.2            | 7.98                            |
| 5 x 4        | GB50540         | 0.7                          | 11.6 – 13.2           | 4.95                            |
| 5 x 6        | GB50560         | 0.7                          | 13.9 – 15.5           | 3.30                            |
| 6 x 0.5      | GB50650         | 0.4                          | 6.4 – 7.4             | 39.0                            |
| 6 x 0.75     | GB50675         | 0.4                          | 7.0 – 8.0             | 26.0                            |
| 6 x 1        | GB50610         | 0.5                          | 8.1 – 9.1             | 19.5                            |
| 6 x 1.5      | GB50615         | 0.5                          | 8.8 – 9.8             | 13.3                            |
| 6 x 2.5      | GB50625         | 0.6                          | 10.9 – 12.5           | 7.98                            |
| 6 x 4        | GB50640         | 0.7                          | 13.2 – 14.8           | 4.95                            |
| 7 x 0.5      | GB50750         | 0.4                          | 6.4 – 7.4             | 39.0                            |
| 7 x 0.75     | GB50775         | 0.4                          | 7.0 – 8.0             | 26.0                            |
| 7 x 1        | GB50710         | 0.5                          | 8.1 – 9.1             | 19.5                            |
| 7 x 1.5      | GB50715         | 0.5                          | 8.8 – 9.8             | 13.3                            |
| 7 x 2.5      | GB50725         | 0.6                          | 10.9 – 12.5           | 7.98                            |
| 7 x 4        | GB50740         | 0.7                          | 13.2 – 14.8           | 4.95                            |

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| NOMINAL SIZE | GOLDBERG NUMBER | NOMINAL INSULATION THICKNESS | MEAN OVERALL DIAMETER | RESISTANCE OF CONDUCTOR AT 20°C |
|--------------|-----------------|------------------------------|-----------------------|---------------------------------|
| mm²          |                 | mm                           | mm                    | Ω/km                            |
| 8 x 0.5      | GB50850         | 0.4                          | 7.0 – 8.0             | 39.0                            |
| 8 x 0.75     | GB50875         | 0.4                          | 7.9 – 8.9             | 26.0                            |
| 8 x 1        | GB50810         | 0.5                          | 8.9 – 9.9             | 19.5                            |
| 8 x 1.5      | GB50815         | 0.5                          | 9.6 – 11.2            | 13.3                            |
| 8 x 2.5      | GB50825         | 0.6                          | 12.0 – 13.6           | 7.98                            |
| 9 x 0.5      | GB50950         | 0.4                          | 7.8 – 8.8             | 39.0                            |
| 9 x 0.75     | GB50975         | 0.4                          | 8.5 – 9.5             | 26.0                            |
| 9 x 1        | GB50910         | 0.5                          | 9.7 – 11.3            | 19.5                            |
| 9 x 1.5      | GB50915         | 0.5                          | 10.6 – 12.2           | 13.3                            |
| 9 x 2.5      | GB50925         | 0.6                          | 13.4 – 15.0           | 7.98                            |
| 10 x 0.5     | GB51050         | 0.4                          | 8.3 – 9.3             | 39.0                            |
| 10 x 0.75    | GB51075         | 0.4                          | 9.0 – 10.6            | 26.0                            |
| 10 x 1       | GB51010         | 0.5                          | 10.4 – 12.0           | 19.5                            |
| 10 x 1.5     | GB51015         | 0.5                          | 11.4 – 13.0           | 13.3                            |
| 10 x 2.5     | GB51025         | 0.6                          | 14.4 – 16.0           | 7.98                            |
| 12 x 0.5     | GB51250         | 0.4                          | 8.6 – 9.6             | 39.0                            |
| 12 x 0.75    | GB51275         | 0.4                          | 9.3 – 10.9            | 26.0                            |
| 12 x 1       | GB51210         | 0.5                          | 10.8 – 12.4           | 19.5                            |
| 12 x 1.5     | GB51215         | 0.5                          | 11.8 – 13.4           | 13.3                            |
| 12 x 2.5     | GB51225         | 0.6                          | 14.9 – 16.5           | 7.98                            |

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|--------------|-----------------|------------------------------|-----------------------|---------------------------------|
| mm²          |                 | mm                           | mm                    | Ω/km                            |
| 14 x 0.5     | GB51450         | 0.4                          | 9.0 – 10.0            | 39.0                            |
| 14 x 0.75    | GB51475         | 0.4                          | 9.8 – 11.4            | 26.0                            |
| 14 x 1       | GB51410         | 0.5                          | 11.4 – 13.0           | 19.5                            |
| 14 x 1.5     | GB51415         | 0.5                          | 12.5 – 14.1           | 13.3                            |
| 14 x 2.5     | GB51425         | 0.6                          | 15.7 – 18.1           | 7.98                            |
| 15 x 0.5     | GB51550         | 0.4                          | 9.4 – 11.0            | 39.0                            |
| 15 x 0.75    | GB51575         | 0.4                          | 10.4 – 12.0           | 26.0                            |
| 15 x 1       | GB51510         | 0.5                          | 12.0 – 13.6           | 19.5                            |
| 15 x 1.5     | GB51515         | 0.5                          | 13.2 – 14.8           | 13.3                            |
| 15 x 2.5     | GB51525         | 0.6                          | 16.8 – 19.2           | 7.98                            |
| 16 x 0.5     | GB51650         | 0.4                          | 9.4 – 11.0            | 39.0                            |
| 16 x 0.75    | GB51675         | 0.4                          | 10.4 – 12.0           | 26.0                            |
| 16 x 1       | GB51610         | 0.5                          | 12.0 – 13.6           | 19.5                            |
| 16 x 1.5     | GB51615         | 0.5                          | 13.2 – 14.8           | 13.3                            |
| 16 x 2.5     | GB51625         | 0.6                          | 16.8 – 19.2           | 7.98                            |
| 18 x 0.5     | GB51850         | 0.4                          | 10.1 – 11.7           | 39.0                            |
| 18 x 0.75    | GB51875         | 0.4                          | 10.9 – 12.5           | 26.0                            |
| 18 x 1       | GB51810         | 0.5                          | 12.7 – 14.3           | 19.5                            |
| 18 x 1.5     | GB51815         | 0.5                          | 14.1 – 15.7           | 13.3                            |
| 18 x 2.5     | GB51825         | 0.6                          | 17.8 – 20.2           | 7.98                            |

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|--------------|-----------------|------------------------------|-----------------------|---------------------------------|
| mm²          |                 | mm                           | mm                    | Ω/km                            |
| 19 x 0.5     | GB51950         | 0.4                          | 10.1 – 11.7           | 39.0                            |
| 19 x 0.75    | GB51975         | 0.4                          | 10.9 – 12.5           | 26.0                            |
| 19 x 1       | GB51910         | 0.5                          | 12.7 – 14.3           | 19.5                            |
| 19 x 1.5     | GB51915         | 0.5                          | 14.1 – 15.7           | 13.3                            |
| 19 x 2.5     | GB51925         | 0.6                          | 17.8 – 20.2           | 7.98                            |
| 21 x 0.5     | GB52150         | 0.4                          | 10.7 – 12.3           | 39.0                            |
| 21 x 0.75    | GB52175         | 0.4                          | 11.8 – 12.3           | 26.0                            |
| 21 x 1       | GB52110         | 0.5                          | 14.1 – 15.7           | 19.5                            |
| 21 x 1.5     | GB52115         | 0.5                          | 15.4 – 17.0           | 13.3                            |
| 21 x 2.5     | GB52125         | 0.6                          | 19.1 – 21.5           | 7.98                            |
| 24 x 0.5     | GB52450         | 0.4                          | 11.8 – 13.4           | 39.0                            |
| 24 x 0.75    | GB52475         | 0.4                          | 13.0 – 14.6           | 26.0                            |
| 24 x 1       | GB52410         | 0.5                          | 15.5 – 17.1           | 19.5                            |
| 24 x 1.5     | GB52415         | 0.5                          | 16.6 – 19.0           | 13.3                            |
| 24 x 2.5     | GB52425         | 0.6                          | 20.9 – 24.1           | 7.98                            |
| 25 x 0.5     | GB52550         | 0.4                          | 12.1 – 13.7           | 39.0                            |
| 25 x 0.75    | GB52575         | 0.4                          | 13.5 – 15.1           | 26.0                            |
| 25 x 1       | GB52510         | 0.5                          | 15.2 – 17.9           | 19.5                            |
| 25 x 1.5     | GB52515         | 0.5                          | 17.0 – 19.4           | 13.3                            |
| 25 x 2.5     | GB52525         | 0.6                          | 21.4 – 24.6           | 7.98                            |

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|--------------|-----------------|------------------------------|-----------------------|---------------------------------|
| mm²          |                 | mm                           | mm                    | Ω/km                            |
| 27 x 0.5     | GB52750         | 0.4                          | 12.3 – 13.9           | 39.0                            |
| 27 x 0.75    | GB52775         | 0.4                          | 13.5 – 15.2           | 26.0                            |
| 27 x 1       | GB52710         | 0.5                          | 14.5 – 17.9           | 19.5                            |
| 27 x 1.5     | GB52715         | 0.5                          | 17.0 – 19.4           | 13.3                            |
| 27 x 2.5     | GB52725         | 0.6                          | 21.4 – 24.6           | 7.98                            |
| 32 x 0.5     | GB53250         | 0.4                          | 13.2 – 14.8           | 39.0                            |
| 32 x 0.75    | GB53275         | 0.4                          | 14.8 – 16.4           | 26.0                            |
| 32 x 1       | GB53210         | 0.5                          | 17.1 – 19.5           | 19.5                            |
| 32 x 1.5     | GB53215         | 0.5                          | 18.7 – 21.0           | 13.3                            |
| 32 x 2.5     | GB53225         | 0.6                          | 23.3 – 26.5           | 7.98                            |
| 36 x 0.5     | GB53650         | 0.4                          | 13.9 – 15.5           | 39.0                            |
| 36 x 0.75    | GB53675         | 0.4                          | 15.5 – 17.1           | 26.0                            |
| 36 x 1       | GB53610         | 0.5                          | 17.8 – 20.2           | 19.5                            |
| 36 x 1.5     | GB53615         | 0.5                          | 19.7 – 22.1           | 13.3                            |
| 36 x 2.5     | GB53625         | 0.6                          | 24.3 – 27.5           | 7.98                            |
| 37 x 0.5     | GB53750         | 0.4                          | 10.1 – 11.7           | 39.0                            |
| 37 x 0.75    | GB53775         | 0.4                          | 13.9 – 17.1           | 26.0                            |
| 37 x 1       | GB53710         | 0.5                          | 17.8 – 20.2           | 19.5                            |
| 37 x 1.5     | GB53715         | 0.5                          | 19.7 – 22.1           | 13.3                            |
| 37 x 2.5     | GB53725         | 0.6                          | 24.3 – 27.5           | 7.98                            |

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