



## • Application

YY cable is a versatile multi-core power and signal control cable suitable for a wide variety of industrial applications. Commonly known by their constructional reference, YSLY cables, they serve as interconnecting cables in manufacturing plants and other automated production facilities for measuring, controlling, or regulating equipment, including assembly and production lines, conveyors, and computer units. These unshielded control cables are highly flexible for easy installation both outdoors, when protected against direct sunlight, and indoors in dry or moist conditions. The tough outer sheathing protects against the effects of light mechanical and environmental stresses.

## • Performance

Voltage Rating  $U_0/U$ : 300/500V

Temperature Rating:

Fixed: -40°C to +80°C

Flexed: -5°C to +70°C

Minimum Bending Radius:

Fixed: 4 x overall diameter

Flexed: 12.5 x overall diameter

Flame Retardant: According to IEC/EN 60332-1-2 Standard

## • Construction

Bare copper conductor, to DIN VDE 0295 cl.5, fine wire, BS 6360 cl.5, IEC 60228 cl.5

Core insulation of special PVC compound type Z 7225

Core identification to DIN VDE 0293: black cores with continuous white numbering

GN-YE conductor, 3 cores and above in the outer layer

Cores stranded in layers with optimal lay length

Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1

Sheath color: grey (RAL 7001)

Sheath

Veriflex YY LSZH cable:

HSLH-OZ: LSZH sheathed cable with black numbered cores

HSLH-JZ: LSZH sheathed cable with black numbered cores and G/Y earth

HSLH-OB: LSZH sheathed cable with colored cores

HSLH-JB: LSZH sheathed cable with colored cores including G/Y earth

Veriflex YY PVC cable:

YSLY-OZ: PVC sheathed cable with black numbered cores

YSLY-JZ: PVC sheathed cable with black numbered cores and G/Y earth

YSLY-OB: PVC sheathed cable with colored cores

YSLY-JB: PVC sheathed cable with colored cores including G/Y earth

## • Specification

-DIN VDE 0207 Standard 300/500V YY LSZH YY PVC Control Cable

## • Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

## • Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



## • National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

\*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

## ● Technical Parameters

| YY PVC YSLY Control Physical Performance |                            |                                 |                                   |                      |                |
|------------------------------------------|----------------------------|---------------------------------|-----------------------------------|----------------------|----------------|
| No. of Cores                             | Nominal Cross Section Area | Nominal Thickness of Insulation | Nominal Thickness of Outer Sheath | Nominal Overall Dia. | Nominal Weight |
| -                                        | mm <sup>2</sup>            | mm                              | mm                                | mm                   | kg/km          |
| 2                                        | 0.5                        | 0.4                             | 0.7                               | 4.8                  | 36             |
| 2                                        | 0.75                       | 0.4                             | 0.7                               | 5.2                  | 46             |
| 2                                        | 1                          | 0.4                             | 0.7                               | 5.6                  | 56             |
| 2                                        | 1.5                        | 0.4                             | 0.8                               | 6.4                  | 73             |
| 2                                        | 2.5                        | 0.5                             | 0.9                               | 7.6                  | 113            |
| 3                                        | 0.5                        | 0.4                             | 0.7                               | 5.1                  | 44             |
| 3                                        | 0.75                       | 0.4                             | 0.7                               | 5.5                  | 55             |
| 3                                        | 1                          | 0.4                             | 0.8                               | 6.1                  | 69             |
| 3                                        | 1.5                        | 0.4                             | 0.8                               | 6.8                  | 91             |
| 3                                        | 2.5                        | 0.5                             | 0.9                               | 8.3                  | 140            |
| 3                                        | 4                          | 0.6                             | 1                                 | 10                   | 210            |
| 3                                        | 6                          | 0.65                            | 1.1                               | 11.5                 | 293            |
| 3                                        | 10                         | 0.75                            | 1.4                               | 14.9                 | 500            |
| 3                                        | 16                         | 0.75                            | 1.5                               | 16.8                 | 704            |
| 3                                        | 25                         | 0.9                             | 1.8                               | 21.1                 | 1080           |
| 4                                        | 0.5                        | 0.4                             | 0.7                               | 5.5                  | 54             |
| 4                                        | 0.75                       | 0.4                             | 0.8                               | 6.2                  | 70             |
| 4                                        | 1                          | 0.4                             | 0.8                               | 6.7                  | 85             |
| 4                                        | 1.5                        | 0.4                             | 0.9                               | 7.6                  | 116            |
| 4                                        | 2.5                        | 0.5                             | 1                                 | 9.3                  | 179            |
| 4                                        | 4                          | 0.6                             | 1.1                               | 11.2                 | 269            |
| 4                                        | 6                          | 0.65                            | 1.2                               | 12.8                 | 374            |
| 4                                        | 10                         | 0.75                            | 1.5                               | 16.6                 | 608            |
| 4                                        | 16                         | 0.75                            | 1.6                               | 18.7                 | 844            |
| 4                                        | 25                         | 0.9                             | 2                                 | 23.6                 | 1327           |
| 4                                        | 35                         | 0.95                            | 2.2                               | 27.2                 | 1790           |
| 5                                        | 0.5                        | 0.4                             | 0.8                               | 6.2                  | 64             |
| 5                                        | 0.75                       | 0.4                             | 0.8                               | 6.7                  | 83             |
| 5                                        | 1                          | 0.4                             | 0.9                               | 7.5                  | 104            |
| 5                                        | 1.5                        | 0.4                             | 0.9                               | 8.3                  | 136            |
| 5                                        | 2.5                        | 0.5                             | 1.1                               | 10.3                 | 213            |
| 5                                        | 4                          | 0.6                             | 1.2                               | 12.4                 | 321            |
| 5                                        | 6                          | 0.65                            | 1.3                               | 14.3                 | 447            |
| 5                                        | 10                         | 0.75                            | 1.6                               | 18.4                 | 760            |
| 5                                        | 16                         | 0.75                            | 1.8                               | 20.9                 | 1064           |
| 5                                        | 25                         | 0.9                             | 2.2                               | 26.4                 | 1673           |
| 5                                        | 35                         | 0.95                            | 2.4                               | 30.3                 | 2252           |

## ● Technical Parameters

| No. of Cores | Nominal Cross Section Area | Nominal Thickness of Insulation | Nominal Thickness of Outer Sheath | Nominal Overall Dia. | Nominal Weight |
|--------------|----------------------------|---------------------------------|-----------------------------------|----------------------|----------------|
| -            | mm <sup>2</sup>            | mm                              | mm                                | mm                   | kg/km          |
| 7            | 0.5                        | 0.4                             | 0.8                               | 6.7                  | 81             |
| 7            | 0.75                       | 0.4                             | 0.9                               | 7.5                  | 108            |
| 7            | 1                          | 0.4                             | 0.9                               | 8.1                  | 130            |
| 7            | 1.5                        | 0.4                             | 1                                 | 9.2                  | 177            |
| 7            | 2.5                        | 0.5                             | 1.1                               | 11.2                 | 277            |
| 7            | 4                          | 0.6                             | 1.3                               | 13.7                 | 423            |
| 7            | 6                          | 0.65                            | 1.4                               | 15.7                 | 593            |
| 8            | 0.75                       | 0.4                             | 0.9                               | 8.1                  | 120            |
| 8            | 1                          | 0.4                             | 1                                 | 9                    | 150            |
| 8            | 1.5                        | 0.4                             | 1                                 | 10                   | 200            |
| 12           | 0.5                        | 0.4                             | 1                                 | 9.1                  | 139            |
| 12           | 0.75                       | 0.4                             | 1                                 | 9.9                  | 179            |
| 12           |                            | 0.4                             | 1.1                               | 10.9                 | 225            |
| 12           | 1.5                        | 0.4                             | 1.2                               | 12.4                 | 302            |
| 12           | 2.5                        | 0.5                             | 1.4                               | 15.3                 | 478            |
| 18           | 0.5                        | 0.4                             | 1.1                               | 10.7                 | 201            |
| 18           | 0.75                       | 0.4                             | 1.2                               | 11.9                 | 230            |
| 18           |                            | 0.4                             | 1.2                               | 12.9                 | 324            |
| 18           | 1.5                        | 0.4                             | 1.4                               | 14.8                 | 446            |
| 18           | 2.5                        | 0.5                             | 1.6                               | 18.2                 | 704            |
| 25           | 0.5                        | 0.4                             | 1.2                               | 12.9                 | 285            |
| 25           | 0.75                       | 0.4                             | 1.3                               | 14.3                 | 372            |
| 25           | 1                          | 0.4                             | 1.4                               | 15.7                 | 462            |
| 25           | 1.5                        | 0.4                             | 1.6                               | 18                   | 627            |
| 25           | 2.5                        | 0.5                             | 1.9                               | 22.3                 | 997            |
| 34           | 0.75                       | 0.4                             | 1.5                               | 16.3                 | 492            |
| 34           | 1                          | 0.4                             | 1.6                               | 17.9                 | 617            |
| 34           | 1.5                        | 0.4                             | 1.7                               | 20.2                 | 833            |
| 34           | 2.5                        | 0.5                             | 2.1                               | 25.2                 | 1337           |
| 50           | 1                          | 0.4                             | 1.8                               | 21                   | 869            |
| 50           | 1.5                        | 0.4                             | 2                                 | 23.8                 | 1186           |
| 50           | 2.5                        | 0.5                             | 2.4                               | 29.6                 | 1898           |
| 61           |                            | 0.4                             | 1.9                               | 22.7                 | 1031           |

| Electrical Performance     |                                                     |                                      |
|----------------------------|-----------------------------------------------------|--------------------------------------|
| Nominal Cross Section Area | Current Carrying Capacities 30°C Continuous Loading | Max. Resistance of Conductor at 20°C |
| mm <sup>2</sup>            | A                                                   | Ω/km                                 |
| 0.5                        | 9                                                   | 39                                   |
| 0.75                       | 12                                                  | 26                                   |
| 1                          | 15                                                  | 19.5                                 |
| 1.5                        | 18                                                  | 13.3                                 |
| 2.5                        | 26                                                  | 7.98                                 |
| 4                          | 34                                                  | 4.95                                 |
| 6                          | 44                                                  | 3.3                                  |
| 10                         |                                                     | 1.91                                 |
| 16                         | 82                                                  | 1.21                                 |
| 25                         | 108                                                 | 0.78                                 |
| 35                         | 135                                                 | 0.554                                |

| YY LSZH HSLH Control Physical Performance |                            |                                 |                                   |                      |                |
|-------------------------------------------|----------------------------|---------------------------------|-----------------------------------|----------------------|----------------|
| No. of Cores                              | Nominal Cross Section Area | Nominal Thickness of Insulation | Nominal Thickness of Outer Sheath | Nominal Overall Dia. | Nominal Weight |
| -                                         | mm <sup>2</sup>            | mm                              | mm                                | mm                   | kg/km          |
| 2                                         | 0.5                        | 0.4                             | 0.7                               | 4.8                  | 36             |
| 2                                         | 0.75                       | 0.4                             | 0.7                               | 5.2                  | 46             |
| 2                                         | 1                          | 0.4                             | 0.7                               | 5.6                  | 56             |
| 2                                         | 1.5                        | 0.4                             | 0.8                               | 6.4                  | 73             |
| 2                                         | 2.5                        | 0.5                             | 0.9                               | 7.6                  | 113            |
| 3                                         | 0.5                        | 0.4                             | 0.7                               | 5.1                  | 44             |
| 3                                         | 0.75                       | 0.4                             | 0.7                               | 5.5                  | 55             |
| 3                                         | 1                          | 0.4                             | 0.8                               | 6.1                  | 69             |
| 3                                         | 1.5                        | 0.4                             | 0.8                               | 6.8                  | 91             |
| 3                                         | 2.5                        | 0.5                             | 0.9                               | 8.3                  | 140            |
| 3                                         | 4                          | 0.6                             | 1                                 | 10                   | 210            |
| 3                                         | 6                          | 0.65                            | 1.1                               | 11.5                 | 293            |
| 3                                         | 10                         | 0.75                            | 1.4                               | 14.9                 | 500            |
| 3                                         | 16                         | 0.75                            | 1.5                               | 16.8                 | 704            |
| 4                                         | 0.5                        | 0.4                             | 0.7                               | 5.5                  | 54             |
| 4                                         | 0.75                       | 0.4                             | 0.8                               | 6.2                  | 70             |
| 4                                         | 1                          | 0.4                             | 0.8                               | 6.7                  | 85             |
| 4                                         | 1.5                        | 0.4                             | 0.9                               | 7.6                  | 116            |
| 4                                         | 2.5                        | 0.5                             | 1                                 | 9.3                  | 179            |
| 4                                         | 4                          | 0.6                             | 1.1                               | 11.2                 | 269            |
| 4                                         | 6                          | 0.65                            | 1.2                               | 12.8                 | 374            |
| 4                                         | 10                         | 0.75                            | 1.5                               | 16.6                 | 608            |
| 4                                         | 16                         | 0.75                            | 1.6                               | 18.7                 | 844            |
| 4                                         | 25                         | 0.9                             | 2                                 | 23.6                 | 1327           |
| 4                                         | 35                         | 0.95                            | 2.2                               | 27.2                 | 1790           |

| No. of Cores | Nominal Cross Section Area | Nominal Thickness of Insulation | Nominal Thickness of Outer Sheath | Nominal Overall Dia. | Nominal Weight |
|--------------|----------------------------|---------------------------------|-----------------------------------|----------------------|----------------|
| -            | mm <sup>2</sup>            | mm                              | mm                                | mm                   | kg/km          |
| 5            | 0.5                        | 0.4                             | 0.8                               | 6.2                  | 64             |
| 5            | 0.75                       | 0.4                             | 0.8                               | 6.7                  | 83             |
| 5            | 1                          | 0.4                             | 0.9                               | 7.5                  | 104            |
| 5            | 1.5                        | 0.4                             | 0.9                               | 8.3                  | 136            |
| 5            | 2.5                        | 0.5                             | 1.1                               | 10.3                 | 213            |
| 5            | 4                          | 0.6                             | 1.2                               | 12.4                 | 321            |
| 5            | 6                          | 0.65                            | 1.3                               | 14.3                 | 447            |
| 5            | 10                         | 0.75                            | 1.6                               | 18.4                 | 760            |
| 5            | 16                         | 0.75                            | 1.8                               | 20.9                 | 1064           |
| 5            | 25                         | 0.9                             | 2.2                               | 26.4                 | 1673           |
| 7            | 0.5                        | 0.4                             | 0.8                               | 6.7                  | 81             |
| 7            | 0.75                       | 0.4                             | 0.9                               | 7.5                  | 108            |
| 7            | 1                          | 0.4                             | 0.9                               | 8.1                  | 130            |
| 7            | 1.5                        | 0.4                             | 1                                 | 9.2                  | 177            |
| 7            | 2.5                        | 0.5                             | 1.1                               | 11.2                 | 277            |
| 7            | 4                          | 0.6                             | 1.3                               | 13.7                 | 423            |
| 7            | 6                          | 0.65                            | 1.4                               | 15.7                 | 593            |
| 8            | 0.5                        | 0.4                             | 0.9                               | 7.5                  | 95             |
| 8            | 1                          | 0.4                             | 1                                 | 9                    | 150            |
| 8            | 1.5                        | 0.4                             | 1                                 | 10                   | 200            |
| 12           | 0.5                        | 0.4                             | 1                                 | 9.1                  | 139            |
| 12           | 0.75                       | 0.4                             | 1                                 | 9.9                  | 179            |
| 12           | 1                          | 0.4                             | 1.1                               | 10.9                 | 225            |
| 12           | 1.5                        | 0.4                             | 1.2                               | 12.4                 | 302            |
| 18           | 0.5                        | 0.4                             | 1.1                               | 10.7                 | 201            |
| 18           | 0.75                       | 0.4                             | 1.2                               | 11.9                 | 230            |
| 18           |                            | 0.4                             | 1.2                               | 12.9                 | 324            |
| 18           | 1.5                        | 0.4                             | 1.4                               | 14.8                 | 446            |
| 18           | 2.5                        | 0.5                             | 1.6                               | 18.2                 | 704            |
| 25           | 0.5                        | 0.4                             | 1.2                               | 12.9                 | 285            |
| 25           | 0.75                       | 0.4                             | 0.13                              | 14.3                 | 372            |
| 25           | 1                          | 0.4                             | 1.4                               | 15.7                 | 462            |
| 25           | 1.5                        | 0.4                             | 1.6                               | 18                   | 627            |
| 25           | 2.5                        | 0.5                             | 1.9                               | 22.3                 | 997            |
| 34           | 0.75                       | 0.4                             | 1.5                               | 16.3                 | 492            |
| 34           | 1                          | 0.4                             | 1.6                               | 17.9                 | 617            |
| 34           | 1.5                        | 0.4                             | 1.7                               | 20.2                 | 833            |

● Technical Parameters

| Electrical Performance     |                                                     |                                      |
|----------------------------|-----------------------------------------------------|--------------------------------------|
| Nominal Cross Section Area | Current Carrying Capacities 30°C Continuous Loading | Max. Resistance of Conductor at 20°C |
| mm <sup>2</sup>            | A                                                   | Ω/km                                 |
| 0.5                        | 9                                                   | 39                                   |
| 0.75                       | 12                                                  | 26                                   |
| 1                          | 15                                                  | 19.5                                 |
| 1.5                        | 18                                                  | 13.3                                 |
| 2.5                        | 23                                                  | 7.98                                 |
| 4                          | 34                                                  | 4.95                                 |
| 6                          | 44                                                  | 3.3                                  |
| 10                         | 61                                                  | 1.91                                 |
| 16                         | 82                                                  | 1.21                                 |
| 25                         | 108                                                 | 0.78                                 |
| 35                         | 135                                                 | 0.554                                |