



MULTICORE FLEXIBLE CONTROL CABLE 300/500V

YSLY - OZ/JZ/JB

Flame Retardant, UV-Resistant, Lead-Cadmium Free
SMI Standard refer to IEC 228, ROHS Comply



CONSTRUCTION

| | |
|----------------------------|--|
| Conductor | Plaim Annealed Copper Wire Class 5 IEC 228 - BS 6360 |
| Insulation | Polyvinyl Chloride Lead Free (PVC 80°C RoHS) |
| Core Identification | OZ : black with numbering JZ : black with numbering & yellow with green stripe as protective conductor JB : coloured core in accord. to VDE 0293 |
| Filler | PP Yarn or PVC Filler (Optional) |
| Outer Sheath | Polyvinyl chloride lead free (PVC 80°C UV Resistant), Grey |
| Cable Marking | Ex : SMI Cable YSLY-JZ 3G X 0.5 MMSQ 300/500V = LENGTH MARKING |
| Flame Retardant | IEC 60332-1 |
| Flame Propagation | IEC 60332-3 cat.C |

APPLICATION

For signaling, power station, air conditioning systems, refrigeration plants, conveyors belts, machine industries & production line.

Cable is resistant to UV and can be used outdoors under sunlight.

TECHNICAL DATA



Nominal Voltage:
300/500V



Spark Test:
5000V



Insulation Resistance:
At 20°C 20 MOhm/km



Min. Bending Radius:
5 x O.D (Fixed) | 10 x O.D (Mobile)



Test Voltage:
4000V 5 min



Temperature Rating:
80°C





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| Conductor Copper wire | Number/ Dia. Wire | Number of core | PVC Insulation | PVC Sheath | Approx. Overall Diameter mmsq +/- | Voltage drop | Approx. Cable Weight |
|------------------------|----------------------|-------------------|-------------------|-------------------|--|-----------------|----------------------------|
| Nom. Conductor Size | | | Nom. Thickness | Nom. Thickness | | | |
| mm ² | -/mm | | mm | mm | mm | V/A.km | kg/km |
| 0.5 | 16/0.20 | 2 | 0.4 | 0.6 | 4.6 | 90.4 | 35 |
| | | 3 | 0.4 | 0.6 | 4.9 | 90.4 | 42 |
| | | 4 | 0.4 | 0.7 | 5.5 | 90.4 | 53 |
| | | 5 | 0.4 | 0.7 | 6.0 | 90.4 | 64 |
| | | 6 | 0.4 | 0.7 | 6.5 | 90.4 | 75 |
| | | 7 | 0.4 | 0.7 | 6.5 | 90.4 | 79 |
| | | 8 | 0.4 | 0.7 | 7.0 | 90.4 | 90 |
| | | 9 | 0.4 | 0.7 | 8.2 | 90.4 | 106 |
| | | 10 | 0.4 | 0.7 | 8.4 | 90.4 | 116 |
| | | 11 | 0.4 | 0.7 | 8.4 | 90.4 | 120 |
| | | 12 | 0.4 | 0.7 | 8.4 | 90.4 | 124 |
| | | 14 | 0.4 | 0.9 | 9.3 | 90.4 | 151 |
| | | 16 | 0.4 | 0.9 | 9.8 | 90.4 | 170 |
| | | 18 | 0.4 | 0.9 | 10.3 | 90.4 | 189 |
| | | 19 | 0.4 | 0.9 | 10.3 | 90.4 | 193 |
| | | 20 | 0.4 | 1.0 | 11.0 | 90.4 | 213 |
| | | 21 | 0.4 | 1.0 | 11.0 | 90.4 | 217 |
| | | 24 | 0.4 | 1.1 | 12.7 | 90.4 | 263 |
| | | 25 | 0.4 | 1.1 | 12.7 | 90.4 | 267 |
| | | 27 | 0.4 | 1.1 | 12.7 | 90.4 | 274 |
| | | 30 | 0.4 | 1.2 | 13.4 | 90.4 | 315 |
| | | 32 | 0.4 | 1.2 | 13.7 | 90.4 | 323 |
| | | 34 | 0.4 | 1.3 | 14.4 | 90.4 | 350 |
| | | 37 | 0.4 | 1.3 | 14.4 | 90.4 | 368 |
| | | 40 | 0.4 | 1.4 | 15.2 | 90.4 | 405 |
| | | 42 | 0.4 | 1.4 | 15.7 | 90.4 | 431 |
| 45 | 0.4 | 1.4 | 16.7 | 90.4 | 465 | | |
| 50 | 0.4 | 1.5 | 17.3 | 90.4 | 500 | | |
| 61 | 0.4 | 1.6 | 18.5 | 90.4 | 598 | | |
| 0.75 | 24/0.20 | 2 | 0.4 | 0.8 | 5.4 | 60.3 | 48 |
| | | 3 | 0.4 | 0.8 | 5.7 | 60.3 | 58 |
| | | 4 | 0.4 | 0.8 | 6.2 | 60.3 | 70 |
| | | 5 | 0.4 | 0.8 | 6.7 | 60.3 | 84 |
| | | 6 | 0.4 | 0.8 | 7.3 | 60.3 | 99 |
| | | 7 | 0.4 | 0.8 | 7.3 | 60.3 | 104 |
| | | 8 | 0.4 | 0.9 | 8.0 | 60.3 | 122 |
| | | 9 | 0.4 | 1.0 | 9.2 | 60.3 | 147 |
| | | 10 | 0.4 | 1.0 | 9.9 | 60.3 | 163 |
| | | 11 | 0.4 | 1.0 | 9.9 | 60.3 | 169 |
| | | 12 | 0.4 | 1.0 | 10.2 | 60.3 | 175 |
| | | 14 | 0.4 | 1.1 | 10.6 | 60.3 | 204 |
| | | 16 | 0.4 | 1.1 | 11.1 | 60.3 | 229 |
| | | 18 | 0.4 | 1.1 | 11.7 | 60.3 | 255 |
| 19 | 0.4 | 1.1 | 11.7 | 60.3 | 261 | | |
| 20 | 0.4 | 1.1 | 12.3 | 60.3 | 280 | | |



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| Conductor Copper wire | Number/ Dia. Wire | Number of core | PVC Insulation | PVC Sheath | Approx. Overall Diameter msmq +/- | Voltage drop | Approx. Cable Weight |
|------------------------|----------------------|-------------------|-------------------|-------------------|--|-----------------|----------------------------|
| Nom. Conductor Size | | | Nom. Thickness | Nom. Thickness | | | |
| mm ² | -/mm | | mm | mm | mm | V/A.km | kg/km |
| 0.75 | 24/0.20 | 21 | 0.4 | 1.2 | 12.6 | 60.3 | 295 |
| | | 24 | 0.4 | 1.2 | 14.1 | 60.3 | 345 |
| | | 25 | 0.4 | 1.2 | 14.1 | 60.3 | 350 |
| | | 27 | 0.4 | 1.2 | 14.1 | 60.3 | 362 |
| | | 30 | 0.4 | 1.2 | 14.7 | 60.3 | 416 |
| | | 32 | 0.4 | 1.2 | 15.1 | 60.3 | 419 |
| | | 34 | 0.4 | 1.2 | 15.6 | 60.3 | 447 |
| | | 37 | 0.4 | 1.2 | 15.6 | 60.3 | 470 |
| | | 40 | 0.4 | 1.4 | 16.7 | 60.3 | 524 |
| | | 42 | 0.4 | 1.5 | 17.4 | 60.3 | 576 |
| | | 45 | 0.4 | 1.5 | 18.5 | 60.3 | 610 |
| | | 50 | 0.4 | 1.5 | 19.0 | 60.3 | 648 |
| | | 61 | 0.4 | 1.6 | 20.3 | 60.3 | 777 |
| 1.0 | 32/0.20 | 2 | 0.4 | 0.8 | 5.7 | 45.2 | 56 |
| | | 3 | 0.4 | 0.8 | 6.0 | 45.2 | 68 |
| | | 4 | 0.4 | 0.8 | 6.5 | 45.2 | 81 |
| | | 5 | 0.4 | 0.8 | 7.2 | 45.2 | 100 |
| | | 6 | 0.4 | 0.9 | 8.0 | 45.2 | 122 |
| | | 7 | 0.4 | 0.9 | 8.0 | 45.2 | 129 |
| | | 8 | 0.4 | 0.9 | 8.6 | 45.2 | 147 |
| | | 9 | 0.4 | 1.0 | 9.9 | 45.2 | 176 |
| | | 10 | 0.4 | 1.0 | 10.6 | 45.2 | 196 |
| | | 11 | 0.4 | 1.0 | 10.5 | 45.2 | 201 |
| | | 12 | 0.4 | 1.0 | 10.5 | 45.2 | 209 |
| | | 14 | 0.4 | 1.0 | 11.2 | 45.2 | 240 |
| | | 16 | 0.4 | 1.0 | 11.7 | 45.2 | 270 |
| | | 18 | 0.4 | 1.1 | 12.5 | 45.2 | 308 |
| | | 19 | 0.4 | 1.1 | 12.5 | 45.2 | 315 |
| | | 20 | 0.4 | 1.1 | 13.1 | 45.2 | 338 |
| | | 21 | 0.4 | 1.1 | 13.1 | 45.2 | 346 |
| | | 24 | 0.4 | 1.1 | 15.0 | 45.2 | 410 |
| | | 25 | 0.4 | 1.1 | 14.9 | 45.2 | 415 |
| | | 27 | 0.4 | 1.1 | 15.0 | 45.2 | 433 |
| | | 30 | 0.4 | 1.1 | 15.6 | 45.2 | 499 |
| | | 32 | 0.4 | 1.1 | 16.0 | 45.2 | 503 |
| | | 34 | 0.4 | 1.3 | 15.3 | 45.2 | 541 |
| 37 | 0.4 | 1.3 | 17.0 | 45.2 | 583 | | |
| 40 | 0.4 | 1.4 | 17.9 | 45.2 | 636 | | |
| 42 | 0.4 | 1.4 | 18.4 | 45.2 | 688 | | |
| 45 | 0.4 | 1.5 | 19.9 | 45.2 | 742 | | |
| 50 | 0.4 | 0.8 | 20.4 | 45.2 | 790 | | |
| 61 | 0.4 | 1.6 | 21.9 | 45.2 | 949 | | |
| 1.5 | 30/0.25 | 2 | 0.4 | 0.8 | 6.2 | 30.9 | 70 |
| | | 3 | 0.4 | 0.8 | 6.6 | 30.9 | 85 |
| | | 4 | 0.4 | 0.8 | 7.9 | 30.9 | 104 |



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| Conductor Copper wire | Number/ Dia. Wire | Number of core | PVC Insulation | PVC Sheath | Approx. Overall Diameter mmsq +/- | Voltage drop | Approx. Cable Weight |
|--------------------------|----------------------|-------------------|-------------------|-------------------|--|-----------------|----------------------------|
| Nom. Conductor Size | | | Nom. Thickness | Nom. Thickness | | | |
| mm ² | -/mm | | mm | mm | mm | V/A.km | kg/km |
| 1.5 | 30/0.25 | 5 | 0.4 | 0.9 | 8.1 | 30.9 | 131 |
| | | 6 | 0.4 | 1.0 | 9.0 | 30.9 | 159 |
| | | 7 | 0.4 | 1.0 | 9.0 | 30.9 | 169 |
| | | 8 | 0.4 | 1.1 | 10.80 | 30.9 | 197 |
| | | 9 | 0.4 | 1.1 | 11.60 | 30.9 | 224 |
| | | 10 | 0.4 | 1.1 | 11.8 | 30.9 | 254 |
| | | 11 | 0.4 | 1.2 | 12.0 | 30.9 | 270 |
| | | 12 | 0.4 | 1.2 | 12.0 | 30.9 | 281 |
| | | 14 | 0.4 | 1.3 | 12.8 | 30.9 | 326 |
| | | 15 | 0.4 | 1.4 | 13.7 | 30.9 | 365 |
| | | 16 | 0.4 | 1.4 | 13.6 | 30.9 | 373 |
| | | 18 | 0.4 | 1.4 | 15.4 | 30.9 | 417 |
| | | 19 | 0.4 | 1.4 | 15.4 | 30.9 | 428 |
| | | 20 | 0.4 | 1.5 | 15.3 | 30.9 | 466 |
| | | 21 | 0.4 | 1.5 | 16.0 | 30.9 | 476 |
| | | 24 | 0.4 | 1.5 | 17.3 | 30.9 | 560 |
| | | 25 | 0.4 | 1.5 | 17.3 | 30.9 | 569 |
| | | 27 | 0.4 | 1.5 | 17.3 | 30.9 | 591 |
| | | 30 | 0.4 | 1.5 | 18.0 | 30.9 | 678 |
| | | 32 | 0.4 | 1.5 | 18.5 | 30.9 | 686 |
| 34 | 0.4 | 1.5 | 19.1 | 30.9 | 731 | | |
| 37 | 0.4 | 1.5 | 19.1 | 30.9 | 772 | | |
| 40 | 0.4 | 1.5 | 19.8 | 30.9 | 831 | | |
| 42 | 0.4 | 1.5 | 20.4 | 30.9 | 899 | | |
| 45 | 0.4 | 1.5 | 21.9 | 30.9 | 956 | | |
| 50 | 0.4 | 0.8 | 22.6 | 30.9 | 1,030 | | |
| 61 | 0.4 | 1.7 | 24.3 | 30.9 | 1,241 | | |
| 2.5 | 50/0.25 | 2 | 0.5 | 0.8 | 7.5 | 18.1 | 104 |
| | | 3 | 0.5 | 0.9 | 8.2 | 18.1 | 133 |
| | | 4 | 0.5 | 0.9 | 8.9 | 18.1 | 164 |
| | | 5 | 0.5 | 1.0 | 10.0 | 18.1 | 205 |
| | | 6 | 0.5 | 1.1 | 11.1 | 18.1 | 249 |
| | | 7 | 0.5 | 1.1 | 11.1 | 18.1 | 266 |
| | | 8 | 0.5 | 1.1 | 12.0 | 18.1 | 302 |
| | | 9 | 0.5 | 1.1 | 12.7 | 18.1 | 346 |
| | | 10 | 0.5 | 1.2 | 14.7 | 18.1 | 401 |
| | | 11 | 0.5 | 1.2 | 14.7 | 18.1 | 418 |
| | | 12 | 0.5 | 1.2 | 14.7 | 18.1 | 435 |
| | | 14 | 0.5 | 1.3 | 15.7 | 18.1 | 503 |
| | | 15 | 0.5 | 1.4 | 16.7 | 18.1 | 556 |
| | | 16 | 0.5 | 1.4 | 16.7 | 18.1 | 575 |
| | | 18 | 0.5 | 1.5 | 17.8 | 18.1 | 655 |
| | | 19 | 0.5 | 1.5 | 17.8 | 18.1 | 672 |
| 20 | 0.5 | 1.5 | 18.7 | 18.1 | 721 | | |
| 21 | 0.5 | 1.5 | 18.7 | 18.1 | 737 | | |



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|--------------------------|----------------------|-------------------|-------------------|-------------------|--|-----------------|----------------------------|
| Nom. Conductor Size | | | Nom. Thickness | Nom. Thickness | | | |
| mm ² | -/mm | | mm | mm | mm | V/A.km | kg/km |
| 2.5 | 50/0.25 | 24 | 0.5 | 1.5 | 21.2 | 18.1 | 871 |
| | | 25 | 0.5 | 1.5 | 21.2 | 18.1 | 886 |
| | | 27 | 0.5 | 1.5 | 21.2 | 18.1 | 922 |
| | | 30 | 0.5 | 1.5 | 22.2 | 18.1 | 1,067 |
| | | 32 | 0.5 | 1.5 | 22.8 | 18.1 | 1,078 |
| | | 34 | 0.5 | 1.5 | 23.7 | 18.1 | 1,151 |
| | | 37 | 0.5 | 1.5 | 23.7 | 18.1 | 1,218 |
| | | 40 | 0.5 | 1.5 | 24.6 | 18.1 | 1,312 |
| | | 42 | 0.5 | 1.6 | 25.6 | 18.1 | 1,435 |
| | | 45 | 0.5 | 1.6 | 27.3 | 18.1 | 1,520 |
| | | 50 | 0.5 | 1.6 | 28.1 | 18.1 | 1,627 |
| | | 61 | 0.5 | 1.8 | 30.2 | 18.1 | 1,974 |
| 4 | 56/0.30 | 2 | 0.5 | 1.0 | 9.2 | 11.3 | 139 |
| | | 3 | 0.5 | 1.0 | 9.8 | 11.3 | 194 |
| | | 4 | 0.5 | 1.0 | 10.7 | 11.3 | 240 |
| | | 5 | 0.5 | 1.2 | 12.1 | 11.3 | 306 |
| | | 6 | 0.5 | 1.2 | 13.2 | 11.3 | 373 |
| | | 7 | 0.5 | 1.2 | 13.2 | 11.3 | 394 |
| 6 | 84/0.30 | 2 | 0.6 | 1.1 | 10.9 | 7.5 | 202 |
| | | 3 | 0.6 | 1.1 | 11.6 | 7.5 | 283 |
| | | 4 | 0.6 | 1.1 | 12.7 | 7.5 | 355 |
| | | 5 | 0.6 | 1.2 | 14.2 | 7.5 | 439 |
| | | 6 | 0.6 | 1.2 | 15.8 | 7.5 | 535 |
| | | 7 | 0.6 | 1.2 | 15.8 | 7.5 | 575 |
| 10 | 80/0.40 | 2 | 0.6 | 1.8 | 14.3 | 4.52 | 349 |
| | | 3 | 0.6 | 1.8 | 15.1 | 4.52 | 480 |
| | | 4 | 0.6 | 1.8 | 16.5 | 4.52 | 599 |
| | | 5 | 0.6 | 1.8 | 18.0 | 4.52 | 725 |
| | | 6 | 0.6 | 1.8 | 19.6 | 4.52 | 865 |
| | | 7 | 0.6 | 1.8 | 19.6 | 4.52 | 939 |
| 16 | 128/0.40 | 2 | 0.7 | 1.8 | 16.8 | 2.8 | 506 |
| | | 3 | 0.7 | 1.8 | 17.8 | 2.8 | 709 |
| | | 4 | 0.7 | 1.8 | 19.5 | 2.8 | 893 |
| | | 5 | 0.7 | 1.8 | 21.4 | 2.8 | 1,088 |
| | | 6 | 0.7 | 1.8 | 23.4 | 2.8 | 1,299 |
| | | 7 | 0.7 | 1.8 | 23.4 | 2.8 | 1,409 |
| 25 | 200/0.40 | 4 | 0.9 | 2.0 | 24.0 | 1.8 | 1,367 |
| | | 5 | 0.9 | 2.0 | 26.3 | 1.8 | 1,669 |
| 35 | 280/0.40 | 4 | 0.9 | 2.0 | 26.8 | 1.3 | 1,808 |
| | | 5 | 0.9 | 2.0 | 29.5 | 1.3 | 2,214 |
| 50 | 400/0.40 | 4 | 0.9 | 2.2 | 30.7 | 0.9 | 2,485 |
| 70 | 356/0.50 | 4 | 1.0 | 2.2 | 35.2 | 0.8 | 3,388 |