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TELECOMMUNICATION CABLES

# J-Y(St)Y...Lg

Installation cable, screened



## TECHNICAL DATA



**Standard**  
DIN VDE 0815



**Certificate**  
VDE Germany



**Test Voltage**  
800 V (core/core) / 50 Hz



**Rated Voltage**  
max. 300 Vss



**Bending radius (min.)**  
7.5 x  $\phi$  of cable



**Fire properties**  
EN 60332-1-2: flame retardant



**Core identification**  
DIN VDE 0815



**Temperature range**  
Laying temperature: min. -5°C  
Fixed installation: -30°C up to 70°C  
Flexible use: -5°C up to 50°C

## DESIGN



## Electrical Parameters

|                                                  |         |     |      |
|--------------------------------------------------|---------|-----|------|
| Conductor diameter                               | mm      | 0.6 | 0.8  |
| Loop resistance max                              | Ω/km    | 130 | 73.2 |
| Insulation resistance, min. at 20 °C             | MΩ/km   | 100 | 100  |
| Mutual capacitance (approx. value), at 800 Hz    | nF/km   | 120 | 120  |
| Mutual capacitance, max.                         | nF/km   | 100 | 100  |
| Capacitance unbalance, max. k                    | pF/500m | 300 | 300  |
| Capacitance unbalanced k1 (quad), max. at 800 Hz | pF/km   | 500 | 500  |

| Number of pairs x nominal diameter | Outer diameter appr. (mm) | Total weight appr. (kg/km) | Standard lengths/packing (m) |
|------------------------------------|---------------------------|----------------------------|------------------------------|
| 2 x 2 x 0.6                        | 5.5                       | 40                         | 100 R, 500 SP, 1000 SP       |
| 3 x 2 x 0.6                        | 6.3                       | 50                         | 100 R, 500 SP, 1000 SP       |
| 4 x 2 x 0.6                        | 6.8                       | 60                         | 100 R, 500 SP, 1000 SP       |
| 5 x 2 x 0.6                        | 7.2                       | 70                         | 100 R, 500 SP, 1000 SP       |
| 6 x 2 x 0.6                        | 7.5                       | 80                         | 500 SP, 1000 SP              |
| 10 x 2 x 0.6                       | 9.0                       | 110                        | 500 SP, 1000 SP              |
| 12 x 2 x 0.6                       | 9.5                       | 130                        | 500 SP, 1000 SP              |
| 16 x 2 x 0.6                       | 10.5                      | 160                        | 500 SP, 1000 SP              |
| 20 x 2 x 0.6                       | 11.0                      | 190                        | 500 D, 1000 D                |
| 30 x 2 x 0.6                       | 13.4                      | 285                        | 500 D, 1000 D                |
| 40 x 2 x 0.6                       | 17.5                      | 383                        | 500 D, 1000 D                |
| 50 x 2 x 0.6                       | 16.0                      | 390                        | 500 D, 1000 D                |
| 60 x 2 x 0.6                       | 21.9                      | 574                        | 500 D, 1000 D                |
| 100 x 2 x 0.6                      | 21.0                      | 780                        | 500 D, 1000 D                |
| 1 x 2 x 0.8                        | 6.0                       | 40                         | 100 R, 500 SP, 1000 SP       |
| 2 x 2 x 0.8                        | 7.0                       | 60                         | 100 R, 500 SP, 1000 SP       |
| 3 x 2 x 0.8                        | 8.5                       | 80                         | 100 R, 500 SP, 1000 SP       |
| 4 x 2 x 0.8                        | 9.0                       | 100                        | 100 R, 500 SP, 1000 SP       |
| 5 x 2 x 0.8                        | 9.5                       | 120                        | 100 R, 500 SP, 1000 SP       |
| 6 x 2 x 0.8                        | 10.5                      | 140                        | 100 R, 500 SP, 1000 SP       |
| 10 x 2 x 0.8                       | 13.0                      | 220                        | 100 R, 500 SP, 1000 SP       |
| 12 x 2 x 0.8                       | 14.0                      | 250                        | 100 R, 500 SP, 1000 SP       |
| 16 x 2 x 0.8                       | 15.5                      | 320                        | 500 D, 1000 D                |
| 20 x 2 x 0.8                       | 16.5                      | 380                        | 500 D, 1000 D                |
| 30 x 2 x 0.8                       | 18.3                      | 570                        | 500 D, 1000 D                |
| 40 x 2 x 0.8                       | 24.0                      | 751                        | 500 D, 1000 D                |
| 50 x 2 x 0.8                       | 23.0                      | 800                        | 500 D, 1000 D                |
| 60 x 2 x 0.8                       | 30.0                      | 1105                       | 500 D, 1000 D                |
| 100 x 2 x 0.8                      | 32.0                      | 1600                       | 500 D, 1000 D                |



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