

# **LgY 500 V; LgY 750 V LgYc 500 V; LgYc 750 V**

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## **SINGLE WIRES**



## **APPLICATIONS**

**LgY, LgYc** - are power flexible single wires intended for interconnection in electrical equipment. Wires can be apply in control cabinets, electronic equipment and others. They are also used in lighting devices and systems.

## **CONSTRUCTION**

- flexible multiwire conductors, stranded of bare annealed copper wires (tin-plated on request), meeting requirements of class 5 per PN-EN 60228,
- PVC insulation – wires **LgY**,
- heat resistant PVC insulation – wires **LgYc**.

## **CHARACTERISTICS**

| Conductor cross-section                                                  | mm <sup>2</sup> | 0.35  | 0.50  | 0.75  | 1.0   | 1.5    | 2.5    |
|--------------------------------------------------------------------------|-----------------|-------|-------|-------|-------|--------|--------|
| DC conductor resistance at 20°C, max.                                    | Ω/km            | 55.7  | 39.0  | 26.0  | 19.51 | 13.3   | 7.98   |
| Insulation resistance for PVC in 70°C and for heat resistant PVC in 95°C | MΩ·km           | 0.014 | 0.012 | 0.011 | 0.010 | 0.0085 | 0.0071 |
| LgY 500 V, LgYc 500 V                                                    |                 | 0.016 | 0.015 | 0.013 | 0.012 | 0.010  | 0.0089 |
| LgY 750 V, LgYc 750 V                                                    |                 |       |       |       |       |        |        |

Operating voltage  $U_0/U$  300/500 V  
450/750 V

Operating temperature range

LgY

from - 30 to + 70°C

LgYc

from - 30 to + 90°C

Voltage test

wires 500 V

2000 V rms

wires 750 V

2500 V rms

Minimum bending radius

12,5 x cable diameter

Cable combustibility

flame retardant

Combustibility tests

PN-EN 60332-1-2 and IEC 60332-1

Reference standards

PN-87/E-90050 and PN-87/E-90054

**CE** = the cable meets requirements of the low voltage directive 2006/95/WE

| Product   | Number of conductors x conductor cross-section | Cable outer diameter (appr.) | Copper index | Cable weight (appr.) |
|-----------|------------------------------------------------|------------------------------|--------------|----------------------|
|           | mm <sup>2</sup>                                | mm                           | kg/km        | kg/km                |
| LgY 500 V | 0.35                                           | 2.00                         | 3.36         | 7.0                  |
| LgY 500 V | 0.50                                           | 2.14                         | 4.8          | 9.0                  |
| LgY 500 V | 0.75                                           | 2.40                         | 7.2          | 12.0                 |
| LgY 500 V | 1.00                                           | 2.54                         | 9.6          | 14.5                 |
| LgY 500 V | 1.50                                           | 2.80                         | 14.4         | 20.0                 |
| LgY 500 V | 2.50                                           | 3.20                         | 24.0         | 30.0                 |
| LgY 750 V | 0.35                                           | 2.40                         | 3.36         | 9.0                  |
| LgY 750 V | 0.50                                           | 2.54                         | 4.8          | 11.0                 |
| LgY 750 V | 0.75                                           | 2.80                         | 7.2          | 14.1                 |
| LgY 750 V | 1.00                                           | 2.94                         | 9.6          | 17.0                 |
| LgY 750 V | 1.50                                           | 3.20                         | 14.4         | 22.4                 |
| LgY 750 V | 2.50                                           | 3.60                         | 24.0         | 32.6                 |

| Product    | Number of conductors x conductor cross-section | Cable outer diameter (appr.) | Copper index | Cable weight (appr.) |
|------------|------------------------------------------------|------------------------------|--------------|----------------------|
|            | mm <sup>2</sup>                                | mm                           | kg/km        | kg/km                |
| LgYc 500 V | 0.35                                           | 2.00                         | 3.36         | 7.0                  |
| LgYc 500 V | 0.50                                           | 2.14                         | 4.8          | 9.0                  |
| LgYc 500 V | 0.75                                           | 2.40                         | 7.2          | 12.0                 |
| LgYc 500 V | 1.00                                           | 2.54                         | 9.6          | 14.5                 |
| LgYc 500 V | 1.50                                           | 2.80                         | 14.4         | 20.0                 |
| LgYc 500 V | 2.50                                           | 3.20                         | 24.0         | 30.0                 |
| LgYc 750 V | 0.35                                           | 2.40                         | 3.36         | 9.0                  |
| LgYc 750 V | 0.50                                           | 2.54                         | 4.8          | 11.0                 |
| LgYc 750 V | 0.75                                           | 2.80                         | 7.2          | 14.1                 |
| LgYc 750 V | 1.00                                           | 2.94                         | 9.6          | 17.0                 |
| LgYc 750 V | 1.50                                           | 3.20                         | 14.4         | 22.4                 |
| LgYc 750 V | 2.50                                           | 3.60                         | 24.0         | 32.6                 |

**Other cross-sections are available upon request.**