

## ÖLFLEX® TRAIN 355 C 300V

Screened multi-core cable based on EN 50264-3-2 type MM S for high requirements in railway applications

ÖLFLEX® TRAIN 355 C 300V - Control cable screened EN 50264-3-2 MM S 300/500V for high requirements in railways/rolling stock

EN 45545: HL1-HL3, NF F 16-101: C/F0

### Info

Meets EN 50264-3-2 type MMS and

EN 45545-2

High temperature resistance: -50°C up to 120°C

Highly oil- and fuel-resistant



Rail



Good chemical resistance



Flame-retardant



Halogen-free



Cold-resistant



Mechanical resistance



Oil-resistant

Last Update (23.04.2024)

©2024 Lapp Group - Technical changes reserved

Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## ÖLFLEX® TRAIN 355 C 300V



Interference signals



Temperature-resistant



UV-resistant

### Benefits

Copper screening complies with EMC requirements and protects against electromagnetic interference

Good chemical resistance please see Appendix T1

Resistant to mechanical influences in harsh environmental conditions

Extended temperature range

Reduced flame spreading increases the protection against damage to persons and property in the event of a fire

### Application range

For use in railway vehicles, for fixed installations and applications where limited movement may occur

Suitable for connecting lamps, heating equipment, switchgear, terminal boxes and power supply

Also applicable within oily environments and areas with increased ambient temperature

### Product features

Fire behaviour according to EN/IEC:

- Halogen-free acc. to EN 60754-1
- No corrosive gases acc. to EN 60754-2
- No fluorine acc. to EN 60684-2
- No toxic gases acc. to EN 50305
- Low smoke density acc. to EN 61034-2
- Flame-retardant acc. to EN 60332-1-2
- No flame propagation acc. to EN 60332-3-24 / EN 60332-3-25 / EN 50305

Fire behaviour according to NF:

- Toxicity of gases acc. to NF X 70-100
- Low smoke density acc. to NF X 10-702
- No flame propagation acc. to NF C 32-070, Cat. C1 and C2

Chemical properties:

- Oil resistant acc. to EN 50264-3-2
- Fuel resistant acc. to EN 50264-3-2
- Acid resistant acc. to EN 50264-3-2
- Alkali resistant acc. to EN 50264-3-2
- Ozone resistant acc. to EN 50264-3-2/ EN 50305)

Current rating according to EN 50355, appendix A

### Norm references / Approvals

EN 50264-3-2 type MMS

EN 45545-2 HL1, HL2, HL3

NF F 16-101 - Classification: C / F0

(flame propagation / smoke)

### Product Make-up

Last Update (23.04.2024)

©2024 Lapp Group - Technical changes reserved

Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## ÖLFLEX® TRAIN 355 C 300V

Conductor: Fine-wire strands of tinned copper  
 Insulation: Electron beam cross-linked Polymer compound EI 109  
 Colour of insulation: Black with white numbers  
 Wrapping: Halogen-free plastic foil  
 Screen: Tinned-copper braiding  
 Outer sheath: electron beam cross-linked polymer-compound EM 104  
 Outer sheath colour: Black

### Technical Data

|                           |                                                                                                                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification ETIM 5:    | ETIM 5.0 Class-ID: EC000104<br>ETIM 5.0 Class-Description: Control cable                                                                                                                                                                                    |
| Classification ETIM 6:    | ETIM 6.0 Class-ID: EC000104<br>ETIM 6.0 Class-Description: Control cable                                                                                                                                                                                    |
| Core identification code: | Black with white numbers                                                                                                                                                                                                                                    |
| Conductor stranding:      | Fine-wired/ Finely stranded according to IEC 60228, conductor class 5                                                                                                                                                                                       |
| Minimum bending radius:   | Fixed installation:<br>$\leq 12$ mm: 3 x OD<br>$> 12$ mm: 4 x OD<br>Occasional flexing:<br>$\leq 12$ mm: 4 x OD<br>$> 12$ mm $\leq 20$ mm: 5 x OD<br>$> 20$ mm: 6 x OD<br>(OD = outer diameter)                                                             |
| Nominal voltage:          | U <sub>0</sub> /U: 300/500 V<br>U <sub>m</sub> AC 600 V<br>V <sub>0</sub> DC 450 V                                                                                                                                                                          |
| Test voltage:             | 2,0 kV AC; 4,8 kV DC                                                                                                                                                                                                                                        |
| Protective conductor:     | G = with GN-YE protective conductor<br>X = without protective conductor                                                                                                                                                                                     |
| Temperature range:        | Fixed installation:<br>$-45^{\circ}\text{C}$ to $+120^{\circ}\text{C}$ (20.000 h)<br>$-50^{\circ}\text{C}$ acc. to GOST 20.57.406-81<br>Occasional flexing:<br>$-35^{\circ}\text{C}$ to $+90^{\circ}\text{C}$<br>Short circuit: $+200^{\circ}\text{C}$ (5s) |

### Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Packaging size: coil  $\leq 30$  kg or  $\leq 250$  m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

# ÖLFLEX® TRAIN 355 C 300V

| Article number | Number of cores and mm <sup>2</sup> per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|----------------|---------------------------------------------------|---------------------|----------------------|----------------|
| 15355000       | 2 X 1.0                                           | 6.2                 | 39.27                | 71.4           |
| 15355001       | 4 X 1.0                                           | 7.2                 | 64.06                | 108.5          |
| 15355002       | 7 X 1.0                                           | 8.5                 | 97.15                | 152            |
| 15355003       | 9 X 1.0                                           | 10.8                | 137.41               | 234.1          |
| 15355004       | 12 X 1.0                                          | 11.3                | 170.09               | 257.7          |
| 15355005       | 19 X 1.0                                          | 13.7                | 261.77               | 395            |
| 15355006       | 24 X 1.0                                          | 15.6                | 324.51               | 482.2          |
| 15355007       | 32 X 1.0                                          | 17.1                | 411.92               | 605.9          |
| 15355008       | 37 X 1.0                                          | 17.9                | 471.56               | 685.9          |
| 15355009       | 40 X 1.0                                          | 19.4                | 510.27               | 777.3          |
| 15355010       | 4 X 1.5                                           | 8.4                 | 86.8                 | 145.1          |
| 15355011       | 7 X 1.5                                           | 10.2                | 150.51               | 224            |
| 15355012       | 9 X 1.5                                           | 13.1                | 191.37               | 336            |
| 15355013       | 12 X 1.5                                          | 13.8                | 240                  | 371.1          |
| 15355014       | 19 X 1.5                                          | 16.2                | 369.09               | 547.8          |
| 15355015       | 24 X 1.5                                          | 18.9                | 463.04               | 697.9          |
| 15355016       | 32 X 1.5                                          | 20.8                | 591.57               | 891.5          |
| 15355017       | 37 X 1.5                                          | 21.8                | 664.73               | 993.6          |
| 15355018       | 4 X 2.5                                           | 9.6                 | 153.75               | 219.6          |
| 15355019       | 7 X 2.5                                           | 11.6                | 224.75               | 311.4          |
| 15355020       | 9 X 2.5                                           | 14.9                | 309.28               | 478.1          |
| 15355021       | 12 X 2.5                                          | 15.7                | 382.12               | 529.9          |
| 15355022       | 19 X 2.5                                          | 18.6                | 573.02               | 794.6          |
| 15355023       | 24 X 2.5                                          | 21.3                | 718.82               | 999.1          |