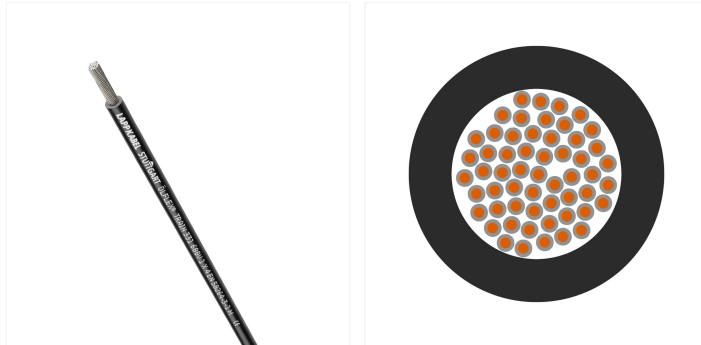


ÖLFLEX® TRAIN 331 600V 1X6 GNYE

Article No.: 15331021

Railway cable; 1G6; EN 50264-3-1; Type M; U_0/U : 0,6/1 kV; -40 - 120 °C; Electron-beam cross-linked polymer compound; ; green/yellow



CE



Details

Benefits

- For the protection of people and property.
- Compliant with standards for use in railway vehicles: fire safety and cable design requirements according to DIN EN 50264-3-1, type M; fire behavior test according to DIN EN 45545-2, hazard levels HL1, HL2 and HL3.
- Fire behavior also certified in accordance with NF testing standards from AFNOR (depending on the item, see Technical Data).
- Electron beam cross-linked insulating material enables use at low and high temperatures (-50°C to 120°C or 145°C (3,000 h).
- Halogen free and highly flame retardant materials reduce the risk of flame propagation, high smoke density and toxic flue gases in the event of a fire.

Application

- Wide range of uses in railway vehicles.
- Typical areas of application are the driver's desk, inverters, control cabinets and panels, lighting, etc.
- For fixed, protected installation and for applications where limited movement can be expected.
- Can be used in dry, damp and, especially, harsh and oily environments.

- The electron beam cross-linked polymer compound is highly resistant to oils, fuels, alkaline solutions and acids.
- Black variants are suitable for outdoor use.

Notes

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

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

The absence of PWIS raw materials does not protect against the potential risk of contamination with substances that interfere with the paint wetting during subsequent handling of the product(s) during transport, storage or further processing after delivery.

Remarks

Technical Data

General information

| | |
|------------------|----------------------------------|
| Brand | ÖLFLEX® |
| Product type | Railway cable |
| Copper index | 387 lb/10000 ft |
| Industry segment | Energy Rolling Stock Solar |

Electrical parameters

| | |
|---------------------------------|--|
| Nominal voltage | U_0/U : 0,6/1 kV AC rms according to IEC |
| Maximum operating voltage U_m | 1,2 kV AC |
| test voltage | 3.5 kV |
| Current rating according to | EN 50355 |
| Short-circuit temperature [5s] | 200 °C |

Product design

| | |
|--|---|
| Type designation for rolling stock cables | Type M |
| Cable dimension | 1G6 |
| Nominal cross section conductor (mm ²) | 6 mm ² |
| Conductor material | Tin-plated Copper |
| Conductor design | IEC 60228 class 5: fine-wire |
| Including protective ground | Yes |
| Number of cores | 1 |
| Shielded | No |
| Nominal conductor diameter | 0.181 in |
| Cable form | Round |
| Core insulation base material | Electron-beam cross-linked polymer compound |
| Single core color | green/yellow |
| Single conductor identification | Stripes, two-colored |

Product features

| | |
|------------------------------------|---|
| Application area | Fixed Installation |
| Minimum bending radius, stationary | 4 x outer diameter |
| Temperature, fixed installation | -40 °C to 120 °C max. conductor temperature -50 °C according to GOST |
| Flame-retardant | Yes |
| Flame retardance according to | IEC 60332-1-2 EN 50305 NF-C 32-070 (C1) NF-C 32-070 (C2) NF-F 16-101 (A1) NF-F 16-101 (A2) NF-F 16-101 (B) NF-F 16-101 (C) UL FT4 |
| low smoke density according to | IEC 61034-2 NF X 10-702 EN 50264-1 |

| | |
|--|--|
| low toxicity of combustion gases | EN 50264-1 EN 50305 NF X 70-100 |
| Corrosiveness of combustion gases according to | EN 50264-1 IEC 60754-2 |
| UV-resistant | Yes |
| UV-resistant according to | EN 50525-1 (cables with a black jacket are suitable for permanent outdoor use) |
| Ozone-resistant | Yes |
| ozone resistant according to | EN 50264-3-1, method B EN 50305 |
| Chemical resistant | Yes |
| Acid-resistant | Yes |
| Acid-resistant according to | EN 50264-3-1 |
| Alkali resistant | Yes |
| Alkali-resistant according to | EN 50264-3-1 |
| Halogenfree | Yes |
| Halogen-free according to | IEC 60754-1 EN 60684-2 |
| Oil resistant | Yes |
| Oil resistance according to | EN 50264-3-1 |
| Fuel-resistant | Yes |
| Fuel-resistant according to | EN 50264-3-1 |
| PWIS-free | Yes |
| PWIS-free according to | VDMA 24364-B2-L |

Certifications and standards

| | |
|---|-----------------------------|
| CE marking | Yes |
| EAC certified | Not required |
| EAC certification number | Отказное письмо № 62, 04276 |
| VDE certified | No |
| Resistance to flame propagation tested according to UN/ECE-R118 | No |
| Tested for fire protection for railway vehicles | Yes |

| | |
|---|----------------|
| Fire protection for railway vehicles hazard level | EN 45545-2 HL1 |
| | EN 45545-2 HL2 |
| | EN 45545-2 HL3 |
| Standard for railway vehicles | EN 50264-3-1 |

ÖLFLEX® TRAIN 331 600V

| Article No. | Name | Nominal cross section conductor (mm ²) | Single core color | Nominal conductor diameter | Copper index |
|-------------|-----------------------------------|--|-------------------|----------------------------|----------------------|
| 15331000 | ÖLFLEX® TRAIN 331 600V 1X1 BK | 1 mm ² | black | 0.098 in | 64.51 lb/10000 ft |
| 15331001 | ÖLFLEX® TRAIN 331 600V 1X1,5 BK | 1.5 mm ² | black | 0.118 in | 96.77 lb/10000 ft |
| 15331002 | ÖLFLEX® TRAIN 331 600V 1X2,5 BK | 2.5 mm ² | black | 0.134 in | 161.28 lb/10000 ft |
| 15331003 | ÖLFLEX® TRAIN 331 600V 1X4 BK | 4 mm ² | black | 0.161 in | 258 lb/10000 ft |
| 15331004 | ÖLFLEX® TRAIN 331 600V 1X6 BK | 6 mm ² | black | 0.181 in | 387 lb/10000 ft |
| 15331005 | ÖLFLEX® TRAIN 331 600V 1X10 BK | 10 mm ² | black | 0.22 in | 645.09 lb/10000 ft |
| 15331006 | ÖLFLEX® TRAIN 331 600V 1X16 BK | 16 mm ² | black | 0.26 in | 1032.15 lb/10000 ft |
| 15331007 | ÖLFLEX® TRAIN 331 600V 1X25 BK | 25 mm ² | black | 0.327 in | 1612.73 lb/10000 ft |
| 15331008 | ÖLFLEX® TRAIN 331 600V 1X35 BK | 35 mm ² | black | 0.374 in | 2257.83 lb/10000 ft |
| 15331009 | ÖLFLEX® TRAIN 331 600V 1X50 BK | 50 mm ² | black | 0.461 in | 3225.42 lb/10000 ft |
| 15331010 | ÖLFLEX® TRAIN 331 600V 1X70 BK | 70 mm ² | black | 0.535 in | 4515.59 lb/10000 ft |
| 15331011 | ÖLFLEX® TRAIN 331 600V 1X95 BK | 95 mm ² | black | 0.614 in | 6128.3 lb/10000 ft |
| 15331012 | ÖLFLEX® TRAIN 331 600V 1X120 BK | 120 mm ² | black | 0.685 in | 7741.07 lb/10000 ft |
| 15331013 | ÖLFLEX® TRAIN 331 600V 1X150 BK | 150 mm ² | black | 0.78 in | 9676.4 lb/10000 ft |
| 15331015 | ÖLFLEX® TRAIN 331 600V 1X240 BK | 240 mm ² | black | 1 in | 15482.25 lb/10000 ft |
| 15331017 | ÖLFLEX® TRAIN 331 600V 1X1 GNYE | 1 mm ² | green/yellow | 0.098 in | 64.51 lb/10000 ft |
| 15331018 | ÖLFLEX® TRAIN 331 600V 1X1,5 GNYE | 1.5 mm ² | green/yellow | 0.118 in | 96.76 lb/10000 ft |
| 15331019 | ÖLFLEX® TRAIN 331 600V 1X2,5 GNYE | 2.5 mm ² | green/yellow | 0.134 in | 161.27 lb/10000 ft |
| 15331020 | ÖLFLEX® TRAIN 331 600V 1X4 GNYE | 4 mm ² | green/yellow | 0.161 in | 258.04 lb/10000 ft |
| 15331021 | ÖLFLEX® TRAIN 331 600V 1X6 GNYE | 6 mm ² | green/yellow | 0.181 in | 387 lb/10000 ft |
| 15331022 | ÖLFLEX® TRAIN 331 600V 1X10 GNYE | 10 mm ² | green/yellow | 0.22 in | 645 lb/10000 ft |
| 15331023 | ÖLFLEX® TRAIN 331 600V 1X16 GNYE | 16 mm ² | green/yellow | 0.26 in | 1032.14 lb/10000 ft |
| 15331024 | ÖLFLEX® TRAIN 331 600V 1X25 GNYE | 25 mm ² | green/yellow | 0.327 in | 1612.73 lb/10000 ft |
| 15331025 | ÖLFLEX® TRAIN 331 600V 1X35 GNYE | 35 mm ² | green/yellow | 0.374 in | 551.4 lb/10000 ft |
| 15331026 | ÖLFLEX® TRAIN 331 600V 1X50 GNYE | 50 mm ² | green/yellow | 0.461 in | 480 lb/10000 ft |
| 15331027 | ÖLFLEX® TRAIN 331 600V 1X70 GNYE | 70 mm ² | green/yellow | 0.535 in | 4515.65 lb/10000 ft |
| 15331028 | ÖLFLEX® TRAIN 331 600V 1X95 GNYE | 95 mm ² | green/yellow | 0.614 in | 6128.39 lb/10000 ft |
| 15331047 | ÖLFLEX® TRAIN 331 600V 1X2,5 RD | 2.5 mm ² | red | 0.134 in | 161.27 lb/10000 ft |
| 15331048 | ÖLFLEX® TRAIN 331 600V 1X2,5 BU | 2.5 mm ² | blue | 0.134 in | 161.27 lb/10000 ft |
| 15331049 | ÖLFLEX® TRAIN 331 600V 1X1 RD | 1 mm ² | red | 0.098 in | 64.51 lb/10000 ft |

| Article No. | Name | Nominal cross section conductor (mm ²) | Single core color | Nominal conductor diameter | Copper index |
|-------------|----------------------------------|--|-------------------|----------------------------|---------------------|
| 15331050 | ÖLFLEX® TRAIN 331 600V 1X1 BU | 1 mm ² | blue | 0.098 in | 64.51 lb/10000 ft |
| 15331051 | ÖLFLEX® TRAIN 331 600V 1X1,5 RD | 1.5 mm ² | red | 0.118 in | 96.76 lb/10000 ft |
| 15331052 | ÖLFLEX® TRAIN 331 600V 1X1,5 BU | 1.5 mm ² | blue | 0.118 in | 96.76 lb/10000 ft |
| 15331053 | ÖLFLEX® TRAIN 331 600V 1X4 RD | 4 mm ² | red | 0.161 in | 38.4 lb/10000 ft |
| 15331054 | ÖLFLEX® TRAIN 331 600V 1X4 BU | 4 mm ² | blue | 0.161 in | 258.04 lb/10000 ft |
| 15331056 | ÖLFLEX® TRAIN 331 600V 1X1 GY | 1 mm ² | gray | 0.098 in | 64.51 lb/10000 ft |
| 15331057 | ÖLFLEX® TRAIN 331 600V 1X1,5 GY | 1.5 mm ² | gray | 0.118 in | 96.76 lb/10000 ft |
| 15331058 | ÖLFLEX® TRAIN 331 600V 1X2,5 GY | 2.5 mm ² | gray | 0.134 in | 161.27 lb/10000 ft |
| 15331059 | ÖLFLEX® TRAIN 331 600V 1X4 GY | 4 mm ² | gray | 0.161 in | 258.04 lb/10000 ft |
| 15331060 | ÖLFLEX® TRAIN 331 600V 1X10 GY | 10 mm ² | gray | 0.22 in | 645.09 lb/10000 ft |
| 15331061 | ÖLFLEX® TRAIN 331 600V 1X16 GY | 16 mm ² | gray | 0.26 in | 1032.15 lb/10000 ft |
| 15331062 | ÖLFLEX® TRAIN 331 600V 1X6 GY | 6 mm ² | gray | 0.181 in | 387.06 lb/10000 ft |
| 15331065 | ÖLFLEX® TRAIN 331 600V 1X0,5 BK | 0.5 mm ² | black | 0.083 in | 32.26 lb/10000 ft |
| 15331066 | ÖLFLEX® TRAIN 331 600V 1X0,75 BK | 0.75 mm ² | black | 0.091 in | 48.38 lb/10000 ft |
| 15331069 | ÖLFLEX® TRAIN 331 600V 1X0,5 RD | 0.5 mm ² | red | 0.083 in | 32.26 lb/10000 ft |
| 15331070 | ÖLFLEX® TRAIN 331 600V 1X0,75 RD | 0.75 mm ² | red | 0.091 in | 48.38 lb/10000 ft |
| 15331074 | ÖLFLEX® TRAIN 331 600V 1X0,5 BU | 0.5 mm ² | blue | 0.083 in | 32.26 lb/10000 ft |
| 15331075 | ÖLFLEX® TRAIN 331 600V 1X0,75 BU | 0.75 mm ² | blue | 0.091 in | 48.38 lb/10000 ft |
| 15331079 | ÖLFLEX® TRAIN 331 600V 1X0,5 BN | 0.5 mm ² | brown | 0.083 in | 32.26 lb/10000 ft |
| 15331080 | ÖLFLEX® TRAIN 331 600V 1X0,75 BN | 0.75 mm ² | brown | 0.091 in | 48.38 lb/10000 ft |
| 15331081 | ÖLFLEX® TRAIN 331 600V 1X1 BN | 1 mm ² | brown | 0.098 in | 64.51 lb/10000 ft |
| 15331082 | ÖLFLEX® TRAIN 331 600V 1X1,5 BN | 1.5 mm ² | brown | 0.118 in | 96.76 lb/10000 ft |
| 15331088 | ÖLFLEX® TRAIN 331 600V 1X0,5 GN | 0.5 mm ² | green | 0.083 in | 32.26 lb/10000 ft |
| 15331089 | ÖLFLEX® TRAIN 331 600V 1X0,75 GN | 0.75 mm ² | green | 0.091 in | 48.38 lb/10000 ft |
| 15331090 | ÖLFLEX® TRAIN 331 600V 1X1 GN | 1 mm ² | green | 0.098 in | 64.51 lb/10000 ft |
| 15331091 | ÖLFLEX® TRAIN 331 600V 1X1,5 GN | 1.5 mm ² | green | 0.118 in | 96.76 lb/10000 ft |
| 15331094 | ÖLFLEX® TRAIN 331 600V 1X0,5 YE | 0.5 mm ² | yellow | 0.083 in | 32.26 lb/10000 ft |
| 15331095 | ÖLFLEX® TRAIN 331 600V 1X0,75 YE | 0.75 mm ² | yellow | 0.091 in | 48.38 lb/10000 ft |
| 15331096 | ÖLFLEX® TRAIN 331 600V 1X1 YE | 1 mm ² | yellow | 0.098 in | 64.51 lb/10000 ft |
| 15331097 | ÖLFLEX® TRAIN 331 600V 1X1,5 YE | 1.5 mm ² | yellow | 0.118 in | 96.76 lb/10000 ft |

| Article No. | Name | Nominal cross section conductor (mm ²) | Single core color | Nominal conductor diameter | Copper index |
|-------------|----------------------------------|--|-------------------|----------------------------|-------------------|
| 15331100 | ÖLFLEX® TRAIN 331 600V 1X0,5 WH | 0.5 mm ² | white | 0.083 in | 32.26 lb/10000 ft |
| 15331101 | ÖLFLEX® TRAIN 331 600V 1X0,75 WH | 0.75 mm ² | white | 0.091 in | 48.38 lb/10000 ft |
| 15331102 | ÖLFLEX® TRAIN 331 600V 1X1 WH | 1 mm ² | white | 0.098 in | 64.51 lb/10000 ft |
| 15331103 | ÖLFLEX® TRAIN 331 600V 1X1,5 WH | 1.5 mm ² | white | 0.118 in | 96.76 lb/10000 ft |
| 15331106 | ÖLFLEX® TRAIN 331 600V 1X0,5 GY | 0.5 mm ² | gray | 0.083 in | 32.26 lb/10000 ft |
| 15331107 | ÖLFLEX® TRAIN 331 600V 1X0,75 GY | 0.75 mm ² | gray | 0.091 in | 48.38 lb/10000 ft |
| 15331110 | ÖLFLEX® TRAIN 331 600V 1X1 OG | 1 mm ² | orange | 0.098 in | 64.51 lb/10000 ft |
| 15331116 | ÖLFLEX® TRAIN 331 600V 1X1 VT | 1 mm ² | violet | 0.098 in | 64.51 lb/10000 ft |
| 15331117 | ÖLFLEX® TRAIN 331 600V 1X1,5 VT | 1.5 mm ² | violet | 0.118 in | 96.76 lb/10000 ft |

V1.1