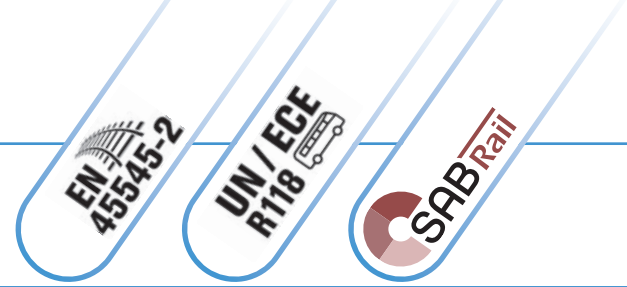


Industrial Ethernet Cables

CATLine CAT 5e R flex
CATLine CAT 6A R flex
CATLine CAT 7A R flex

continuously flexible halogen-free
 Industrial Ethernet Cables
 for Railway Technology



D-VIERSEN · CATLine Cat. 7A R flex 4x2x24AWG 1769-4431 CE 

Marking for CATLine CAT 7A R flex 17694431:

SAB BRÜCKSKES · D-VIERSEN · CATLine Cat. 7A R flex 4x2x24AWG 1769-4431 CE

Application: Suitable for flexible and protected installation in the interior for door control or in protecting tubes for outdoor laying at the bogie. Appropriate for light and medium mechanical stress.

| Construction: | CATLine CAT 5e R flex <i>continuously flexible</i> | | CATLine CAT 6A R flex <i>continuously flexible</i> | CATLine CAT 7A R flex <i>continuously flexible</i> |
|-------------------------|---|---|---|---|
| Dimension: | 2 x 2 x 24 AWG 2 x 2 x 22 AWG | 4 x 2 x 26 AWG 4 x 2 x 24 AWG | 4 x 2 x 26 AWG / 4 x 2 x 24 AWG | |
| Conductor: | bare copper strands, fine wires | | | |
| Insulation: | special SABIX® | | | |
| Colour code: | blue, yellow, white, orange | white-blue/blue, white-orange/orange, white-green/green, white-brown/brown | | |
| Stranding: | star quad | cores twisted to pairs, pairs together | | twisted to pairs with alu foil, pairs together |
| Wrapping: | foil | | | |
| Screen: | alu foil und tinned copper braiding | | | tinned copper braiding |
| Sheath material: | special SABIX® | | | |
| Sheath colour: | green (similar RAL 6018) | | | |

| Technical data: | CATLine CAT 5e R flex <i>continuously flexible</i> | | CATLine CAT 6A R flex <i>continuously flexible</i> | CATLine CAT 7A R flex <i>continuously flexible</i> |
|--|--|--|--|---|
| Item number: | 1569-2435 1569-2235 | 1569-4431 1569-4631 | 1669-4431 1669-4631 | 1769-4431 1769-4631 |
| Peak operating voltage: | max. 90 V | | | |
| Testing voltage core/core: core/screen: | 750 V 750 V | | | |
| Min. bending radius fixed laying: flexible application: continuously flexible: | 5 x d 12 x d 15 x d | | | |
| Temperature range VDE fixed laying: flexible application: | -50/+90 °C -40/+90 °C | | | |
| Halogen-free: | acc. to EN 50306-1 + EN 50264-1. Development of HCl is ≤ 0,5% acc. to IEC 60754-1. pH-value is ≥ 4,3 acc. to IEC 60754-2. Conductivity is ≤ 10,0 µS/mm acc. to IEC 60754-2. Fluoric content ≤ 0,1% acc. to IEC 60684-2 | | | |
| Fire performance: | no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 and EN 50305 + VDE 0260-305 section 9.1.2. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2. Flame retardant acc. to ISO 6722 (UN/ECE R118) | | | |
| Smoke density: | acc. to IEC 61034 + VDE 0482-1034 | | | |
| Toxicity: | acc. to EN 50305 + VDE 0260-305 | | | |
| Oil and fuel resistance: | acc. to EN 50264-1 + VDE 0260-264-1 | | | |
| Characteristic impedance: | 100Ω ± 5Ω with reference to EN 50288-2-2 / CAT 5 | 100Ω ± 10Ω with reference to EN 50288-2-2 / CAT 5 | 100Ω ± 10Ω with reference to EN 50288-10-2 / CAT 6A | 100Ω ± 10Ω with reference to EN 50288-9-2 / CAT 7A |
| Flexibility: | good | | | |
| Application: | suitable for EtherCAT and EtherNET/IP applications | | | |
| Absence of harmful substances: | acc. to RoHS directive of the European Union, see chapter N „Technical data“ | | | |

| item no. | type | dimension | max. core-ø mm | outer-ø mm | copper figure kg/km | cable weight ≈kg/km |
|----------|-----------------------|----------------|----------------|------------|---------------------|---------------------|
| 15692435 | CATLine CAT 5e R flex | 2 x 2 x 24 AWG | 1,25 | 5,1 | 22,8 | 40 |
| 15692235 | CATLine CAT 5e R flex | 2 x 2 x 22 AWG | 1,55 | 5,8 | 29,2 | 53 |
| 15694431 | CATLine CAT 5e R flex | 4 x 2 x 24 AWG | 1,29 | 7,8 | 42,3 | 81 |
| 15694631 | CATLine CAT 5e R flex | 4 x 2 x 26 AWG | 0,99 | 6,5 | 29,7 | 55 |
| 16694431 | CATLine CAT 6A R flex | 4 x 2 x 24 AWG | 1,29 | 7,9 | 42,2 | 80 |
| 16694631 | CATLine CAT 6A R flex | 4 x 2 x 26 AWG | 0,99 | 6,5 | 29,7 | 56 |
| 17694431 | CATLine CAT 7A R flex | 4 x 2 x 24 AWG | 1,71 | 9,7 | 46,6 | 109 |
| 17694631 | CATLine CAT 7A R flex | 4 x 2 x 26 AWG | 1,45 | 8,6 | 35,8 | 92 |

Other dimensions and colours are possible on request.

**fulfils fire protection requirements
 R15 (EL1A) and R16 (EL1B)
 acc. to EN 45545-2
 for hazard levels HL1-3**

**Also possible
 as harnessed cable
 with M12 or RJ 45 plug!**

