

# Industrial Ethernet Cables

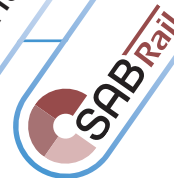
**CATLine CAT 5e R**

**CATLine CAT 6A R** halogen-free Industrial Ethernet Cables  
for Railway Technology

**CATLine CAT 7A R**

EN 45545-2

Flame retardant acc. to  
UN/ECER118



VIERSEN · CATLine Cat. 7A R 4x2x24AWG 1767-4621 CE



Marking for CATLine CAT 7A R 17674621:

SAB BRÜCKSKES · D-VIERSEN · CATLine Cat. 7A R 4x2x24AWG 1767-4621 CE

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

| <b>Technical data:</b>   | CATLine CAT 5e R<br><i>flexible</i>   |   | CATLine CAT 6A R<br><i>flexible</i>  | CATLine CAT 7A R<br><i>flexible</i> |
|--|---|---|--|-------------------------------------|
| <b>Item number:</b>  | 1567-2625<br>1567-9002<br>1567-9004   | 1567-4421   | 1667-4621  | 1767-4621                           |
| <b>Peak operating voltage:</b>   | max. 90 V   |   |  |                                     |
| <b>Testing voltage</b><br>core/core:<br>core/screen:                   | 750 V<br>750 V  |   |  |                                     |
| <b>Min. bending radius</b><br>fixed laying:<br>flexible application:   | 5 x d<br>12 x d   |   |  |                                     |
| <b>Temperature range VDE</b><br>fixed laying:<br>flexible application: | -40/+70 °C<br>-30/+70 °C  |   |  |                                     |
| <b>Halogen-free:</b>   | acc. to EN 50306-1 + EN 50264-1.<br>Development of HCl is ≤ 0,5% acc. to IEC 60754-1.<br>pH-value is ≥ 4,3 acc. to IEC 60754-2.<br>Conductivity is ≤ 10,0 µS/mm acc. to IEC 60754-2.<br>Fluoric content ≤ 0,1% acc. to IEC 60684-2        |   |  |                                     |
| <b>Fire performance:</b>   | no flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24<br>resp. IEC 60332-3-25 + VDE 0482-332-3-25 and EN 50305 + VDE 0260-305 section 9.1.2.<br>Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 |   |  |                                     |
| <b>Smoke density:</b>  | acc. to IEC 61034 + VDE 0482-1034   |   |  |                                     |
| <b>Toxicity:</b>   | acc. to EN 50305 + VDE 0260-305   |   |  |                                     |
| <b>Characteristic impedance:</b>                                       | 100Ω ± 10Ω,<br>fulfils the electrical and transmission<br>requirements with high frequency<br>with reference to<br>EN 50288-2-2 / CAT 5   | 100Ω ± 10Ω,<br>fulfils the electrical and transmission<br>requirements with high frequency<br>with reference to<br>EN 50288-10-2 / CAT 6A | 100Ω ± 10Ω,<br>fulfils the electrical and transmission<br>requirements with high frequency<br>with reference to<br>EN 50288-9-2 / CAT 7A |                                     |
| <b>Flexibility:</b>  | good  |   |  |                                     |
| <b>Absence of harmful substances:</b>                                  | acc. to RoHS directive of the European Union, see chapter N „Technical data“  |   |  |                                     |

| item no. | type             | dimension      | max.<br>core-ø<br>mm | outer-ø<br>mm | copper<br>figure<br>kg/km | cable<br>weight<br>≈kg/km |
|----------|------------------|----------------|----------------------|---------------|---------------------------|---------------------------|
| 15672625 | CATLine CAT 5e R | 2 x 2 x 26 AWG | 1,05                 | 4,0 ± 5%      | 16,4                      | 25                        |
| 15679002 | CATLine CAT 5e R | 2 x 2 x 24 AWG | 1,30                 | 5,2 ± 5%      | 22,7                      | 41                        |
| 15679004 | CATLine CAT 5e R | 2 x 2 x 22 AWG | 1,60                 | 5,9 ± 5%      | 29,1                      | 52                        |
| 15674421 | CATLine CAT 5e R | 4 x 2 x 24 AWG | 1,30                 | 8,0 ± 10%     | 41,2                      | 70                        |
| 16674621 | CATLine CAT 6A R | 4 x 2 x 26 AWG | 1,05                 | 6,8 ± 10%     | 31,9                      | 55                        |
| 17674621 | CATLine CAT 7A R | 4 x 2 x 26 AWG | 1,60                 | 7,8 ± 10%     | 38,5                      | 75                        |

Other dimensions and colours are possible on request.

