

# Industrial Ethernet Cables for Maritime Use

**CATLine CAT 5e BL** Halogen-free CAT 5e industrial Ethernet cables for maritime use

**CATLine CAT 6A BL** Halogen-free CAT 6A industrial Ethernet cables for maritime use

**CATLine CAT 7A BL** Halogen-free CAT 7A industrial Ethernet cables for maritime use



24AWG 17474421 AWM Style 21080 75°C 300V CE



Marking for CATLine CAT 7A BL 17474421:

SAB BRÖCKSKES · D-VIERSEN · CATLine Cat.7A BL 4x2x24AWG 17474421 AWM Style 21080 75°C 300V CE



| Construction:    | CATLine CAT 5e BL                |                                                                               | CATLine CAT 6A BL                                                             | CATLine CAT 7A BL                                                        |
|------------------|----------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Item numbers:    | 15479001<br>15479002             | 15474621                                                                      | 16474421<br>16474621                                                          | 17474421<br>17474621                                                     |
| Dimensions:      | 2 x 2 x 24 AWG<br>2 x 2 x 22 AWG | 4 x 2 x 26 AWG                                                                | 4 x 2 x 24 AWG<br>4 x 2 x 26 AWG                                              | 4 x 2 x 24 AWG<br>4 x 2 x 26 AWG                                         |
| Conductor:       | bare copper strands, fine wires  |                                                                               | bare copper strands, fine wires                                               |                                                                          |
| Insulation:      | special polymer                  |                                                                               | special polymer                                                               |                                                                          |
| Color code:      | blue, yellow,<br>white, orange   | white-blue/blue, white-orange/orange,<br>white-green/green, white-brown/brown | white-blue/blue, white-orange/orange,<br>white-green/green, white-brown/brown |                                                                          |
| Stranding:       | star quad                        | conductors twisted to pairs, pairs together                                   |                                                                               | conductors twisted to pairs, pairs<br>shielded with foil, pairs together |
| Wrapping:        | alu foil                         |                                                                               | alu foil                                                                      | —                                                                        |
| Shielding:       | tinned copper braiding           |                                                                               | tinned copper braiding                                                        | tinned copper braiding                                                   |
| Jacket material: | special SABIX®                   |                                                                               | special SABIX®                                                                | special SABIX®                                                           |
| Jacket color:    | black                            |                                                                               | black                                                                         | black                                                                    |

| Technical data:                                                  | CATLine CAT 5e BL                                                                                                                                                                                               | CATLine CAT 6A BL                                                                                                                              | CATLine CAT 7A BL                                                                                                                             |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Peak operating voltage:                                          | max. 90 V                                                                                                                                                                                                       | max. 90 V                                                                                                                                      | max. 90 V                                                                                                                                     |
| Voltage UL:                                                      | 300 V                                                                                                                                                                                                           | 300 V                                                                                                                                          | 300 V                                                                                                                                         |
| Testing voltage:<br>conductor/conductor:<br>conductor/shielding: | 2000 V<br>2000 V                                                                                                                                                                                                | 2000 V<br>2000 V                                                                                                                               | 2000 V<br>2000 V                                                                                                                              |
| Min. bending radius:<br>fixed installation<br>free movement:     | 5 x O.D.<br>10 x O.D.                                                                                                                                                                                           | 5 x O.D.<br>10 x O.D.                                                                                                                          | 5 x O.D.<br>10 x O.D.                                                                                                                         |
| Temperature range VDE:<br>static:<br>flexible:                   | UL: up to +75°C<br>-40/+70°C<br>-30/+70°C                                                                                                                                                                       | UL: up to +75°C<br>-40/+70°C<br>-30/+70°C                                                                                                      | UL: up to +75°C<br>-40/+70°C<br>-30/+70°C                                                                                                     |
| Low smoke halogen-free (LSHF):                                   | acc. to IEC 60754-1 +<br>VDE 0482-754-1                                                                                                                                                                         | acc. to IEC 60754-1 +<br>VDE 0482-754-1                                                                                                        | acc. to IEC 60754-1 +<br>VDE 0482-754-1                                                                                                       |
| Burning characteristics:                                         | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2,<br>no flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 Cat. A,<br>UL Horizontal Flame Test FT2, UL AWM Style 21080 |                                                                                                                                                |                                                                                                                                               |
| Corrosiveness of conflagration gases:                            | in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases                                                                                                               |                                                                                                                                                |                                                                                                                                               |
| Smoke density:                                                   | acc. to IEC 61034 + VDE 0482-1034                                                                                                                                                                               | acc. to IEC 61034 + VDE 0482-1034                                                                                                              | acc. to IEC 61034 + VDE 0482-1034                                                                                                             |
| Characteristic impedance (100 MHz):                              | 100Ω ± 10Ω, accomplishes the<br>electrical and transmission<br>requirements with high frequency<br>with reference to<br>EN 50288-2-2 / CAT 5                                                                    | 100Ω ± 10Ω, accomplishes the<br>electrical and transmission<br>requirements with high frequency<br>with reference to<br>EN 50288-10-2 / CAT 6A | 100Ω ± 10Ω, accomplishes the<br>electrical and transmission<br>requirements with high frequency<br>with reference to<br>EN 50288-9-2 / CAT 7A |
| Flexibility:                                                     | good                                                                                                                                                                                                            | good                                                                                                                                           | good                                                                                                                                          |
| UL Style:                                                        | 21080                                                                                                                                                                                                           | 21080                                                                                                                                          | 21080                                                                                                                                         |
| Application:                                                     | suitable for EtherCAT and EtherNET/IP applications                                                                                                                                                              |                                                                                                                                                |                                                                                                                                               |
| Absence of harmful substances:                                   | acc. to RoHS directive of the European Union, see page O/30                                                                                                                                                     |                                                                                                                                                |                                                                                                                                               |

| item no.   | type              | dimensions<br>AWG | outer-ø<br>inch<br>± 5% | mm<br>± 5% | cable<br>weight<br>≈lbs/mft |
|------------|-------------------|-------------------|-------------------------|------------|-----------------------------|
| ▶ 15479001 | CATLine CAT 5e BL | 24 (7 strand)/2pr | 0.224                   | 5.7        | 32                          |
| ▶ 15479002 | CATLine CAT 5e BL | 22 (7 strand)/2pr | 0.252                   | 6.4        | 41                          |
| ▶ 15474621 | CATLine CAT 5e BL | 26 (7 strand)/4pr | 0.287                   | 7.3        | 43                          |
| ▶ 16474621 | CATLine CAT 6A BL | 26 (7 strand)/4pr | 0.287                   | 7.3        | 43                          |
| ▶ 16474421 | CATLine CAT 6A BL | 24 (7 strand)/4pr | 0.327                   | 8.3        | 54                          |
| ▶ 17474621 | CATLine CAT 7A BL | 26 (7 strand)/4pr | 0.350                   | 8.9        | 57                          |
| ▶ 17474421 | CATLine CAT 7A BL | 24 (7 strand)/4pr | 0.413                   | 10.5       | 78                          |

Other dimensions and colors are available on request

Also possible as a  
cable assembly with  
M12 or RJ 45 plug



www.sabcable.com  
866-722-2974 ■ info@sabcable.com