

Installation Remote BUS Cables



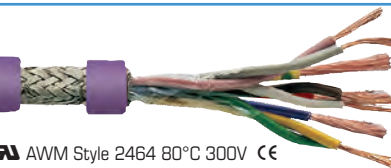
IBS 612 PVC Interbus-S cable for indoor and outdoor installation

S IBS 618 PUR Interbus-S cable for cable tracks with UL recognition

IBS 617 PVC Interbus-S cable with UL recognition

S IBS 616 PUR Interbus-S cable for cable tracks

3x1,0mm² AWM Style 2464 80°C 300V



Marking for IBS 617 6176221:

SAB BRÖCKSKES · D-VIERSEN · IBS 617 3x2x0.22mm²+3x1.0mm² AWM Style 2464 80°C 300V

| Construction: | IBS 612 <i>for indoor & outdoor</i> | IBS 617 | S IBS 618* <i>suitable for cable tracks</i> | S IBS 616* <i>suitable for cable tracks</i> |
|--|---|--|---|--|
| Item numbers: | 6126228 | 6176221 | 6186251 | 6166251 |
| Dimensions: | 3 x 2 x 0.22 mm ² + 3 x 1.00 mm ² | 3 x 2 x 0.22 mm ² + 3 x 1.00 mm ² | 3 x 2 x 0.25 mm ² + 3 x 1.00 mm ² | 3 x 2 x 0.25 mm ² + 3 x 1.00 mm ² |
| Conductor: 3 x 2 x 0.22 mm ² resp. 3 x 2 x 0.25 mm ² | bare copper strands with reference to VDE 0812 | bare copper strands with reference to VDE 0812 | bare copper strands with reference to VDE 0812 | bare copper strands with reference to VDE 0812 |
| Conductor: 3 x 1.00 mm ² : | bare copper strands acc. to IEC 60228, VDE 0295, class 5 | | bare copper strands acc. to IEC 60228, VDE 0295, class 6 | |
| Insulation: | PE, 2Y11 acc. to EN 50290-2-23 + VDE 0819-103 | | 0.25 mm ² : PE, 2Y11 1.00 mm ² : TPE | PE, 2Y11 acc. to EN 50290- 2-23 + VDE 0819-103 |
| Color code: | acc. to DIN 47100 (pairs), 1.0 mm ² : red, blue and green/yellow ground | | acc. to DIN 47100 (pairs), 1.0 mm ² : red, blue and green/yellow ground | |
| Stranding: | twisted to pairs (≤ 24 AWG) | twisted to pairs (≤ 24 AWG) | twisted to pairs (≤ 24 AWG) pairs & conductors together | twisted to pairs (≤ 24 AWG) |
| Wrapping: | PETP foil | PETP foil | non-woven tape | non-woven tape |
| Shielding: | tinned copper braiding | tinned copper braiding | tinned copper braiding | tinned copper braiding |
| Jacket material: | PVC, TM2 acc. to EN 50363-4-1 | PVC, TM5 acc. to EN 50363-4-1 | PUR with rough surface | PUR, TPU acc. to EN 50363-10-2 with rough surface |
| Jacket color: | black (RAL 9005) | red lilac (RAL 4001) | red lilac (RAL 4001) | red lilac (RAL 4001) |

| Technical data: | IBS 612 <i>for indoor & outdoor</i> | IBS 617 | S IBS 618 <i>suitable for cable tracks</i> | S IBS 616 <i>suitable for cable tracks</i> |
|--|---|---|---|---|
| Peak operating voltage: | max. 350 V | max. 350 V | max. 350 V | max. 350 V |
| Voltage UL: | — | 300 V | 300 V | — |
| Testing voltage: conductor/conductor: conductor/shielding: | 1500 V 1200 V | 2000 V 2000 V | 2000 V 2000 V | 1500 V 1200 V |
| Min. bending radius: | 7.5 x O.D. | 7.5 x O.D. | 7.5 x O.D. | 7.5 x O.D. |
| Radiation resistance: | 8 x 10 ⁷ cJ/kg | 8 x 10 ⁷ cJ/kg | 5 x 10 ⁷ cJ/kg | 5 x 10 ⁷ cJ/kg |
| Temperature range: static: flexible: | -30/+70°C -5/+70°C | UL: up to +80°C -30/+70°C -5/+70°C | UL: up to +80°C -40/+70°C -40/+70°C | -40/+70°C -40/+70°C |
| Halogen-free: | — | — | acc. to IEC 60754-1 + VDE 0482-754-1 | acc. to IEC 60754-1 + VDE 0482-754-1 |
| Burning characteristics: | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 | | | |
| Oil resistance: | acc. to internal standard see page O/29 | very good acc. to VDE 0207-5 | very good acc. to EN 50363-10-2 + VDE 0207-363-10-2 | very good acc. to EN 50363-10-2 + VDE 0207-363-10-2 |
| Characteristic impedance at 0.064 MHz: | 120Ω ± 20% | 120Ω ± 20% | 120Ω ± 20% | 120Ω ± 20% |
| Characteristic impedance at > 1 MHz: | 100Ω ± 15Ω | 100Ω ± 15Ω | 100Ω ± 15Ω | 100Ω ± 15Ω |
| Flexibility: | good | good | very good | very good |
| Application in cable tracks: | not recommended | not recommended | recommended | recommended |
| Weather resistance: | medium | medium | very good | very good |
| Bending characteristics: # of bendings acc. to VDE 0472-603 test method H | — | — | min. 1,000,000 single bendings | min. 1,000,000 single bendings |
| Direct burial: | suitable | not suitable | suitable | not suitable |
| UL Style: | — | 2464- 80°C | 20235- 80°C | — |
| Absence of harmful substances: | acc. to RoHS directive of the European Union, see page O/30 | | | |

| item no. | type | jacket color | no. of pairs | power conductors | outer-ø ±10% inch ±10% mm | cable weight ≈lbs/mft |
|------------|-----------|----------------------|------------------|------------------|------------------------------------|--------------------------|
| ▶ 6126228 | IBS 612 | black (RAL 9005) | 24 (≈ 14/34)/3pr | 18 (≈ 30/32)/3c | 0.394 | 10.0 |
| ▶ 6176221 | IBS 617 | red lilac (RAL 4001) | 24 (≈ 14/34)/3pr | 18 (≈ 30/32)/3c | 0.748 | 19.0 |
| ▶ 6186251* | S IBS 618 | red lilac (RAL 4001) | 24 (≈ 14/34)/3pr | 18 (≈ 56/34)/3c | 0.362 | 9.2 |
| ▶ 6166251* | S IBS 616 | red lilac (RAL 4001) | 24 (≈ 14/34)/3pr | 18 (≈ 56/34)/3c | 0.315 | 8.0 |

Other dimensions and colors are available on request

* Interbus-S installation remote bus cables
3 x 2 x 0.22 mm² + 3 x 1.0 mm² or
3 x 2 x 0.25 mm² + 3 x 1.0 mm² are used for the
sensor/actuator level of industrial communication

