



BS 5308 PART 1 TYPE 1 I&O SCREEN PVC

| | |
|----------------|--|
| Cable Standard | Instrument Cable BS 5308 |
| Voltage | 500V |
| Description | Copper, Multi Pair, PE- Insulation, Individual & Collective Screen , PVC Sheath |
| Cable type | BS 5308 Part 1 Type 1 |

Electrical data a 20°C

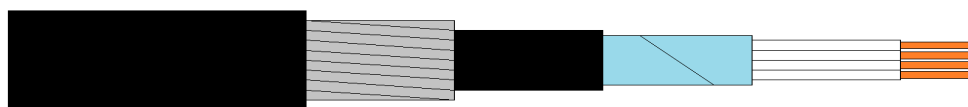
| Conductor size | Nom | mm ² | 0,5 | 0,75 | 1 | 1,5 | 2,5 | |
|--|------|-----------------|----------------------|------|------|------|------|------|
| Conductor resistance | Max | Ω/km | | | | | | |
| | | | solid / Class 1 | 36 | - | 18,1 | - | - |
| | | | stranded / Class 2 | - | 24,5 | 18,1 | 12,1 | 7,41 |
| flexible / Class 5 | | | 39 | 26 | - | - | - | |
| and additional 2% of the maximum resistance has been allowed for cable of multipair construction | | | | | | | | |
| Insulation resistance | Min. | MΩxkm | | | | | | |
| | | | Individual conductor | 5000 | | | | |
| | | | Individual screen | 1 | | | | |
| Mutual capacitance 1kHz | Max. | nF/km | | | | | | |
| | | | Screen individually | 115 | | 120 | 140 | |
| | | | L/R Ratio | Max. | μH/Ω | 25 | | 40 |
| Test voltage | | V | | | | | | |
| | | | Ums core: core | 1000 | | | | |
| | | | Ums core: screen | 1000 | | | | |

Properties for cable

| | |
|------------------------|-----------------------------|
| Code Colour | Black & Blue numbered pairs |
| Fire Resistant | N.A. |
| Flame Retardant | IEC 60332-3-24 |
| Low Smoke Emission | N.A. |
| Other Properties | |
| Minimum Bending Radius | 6 X O.D. |

Properties for outer sheath

| | |
|----------------------------|----------------------|
| Limiting Oxygen Index | N.A. |
| Amount of halogen acid gas | HCl<15% |
| Oil Resistance | N.A. |
| Sunlight Resistance | UL 1581 Section 1200 |
| Temperature Installation | -5°C/50°C |
| Temperature Operating | -30°C/50°C |



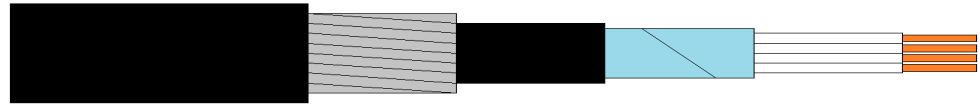
| Nº Pairs | Cores | RT Insulation Nominal | RT Inner sheath | ∅ over inner sheath | ∅ of armour wire nom. | RT of outer sheath nom. | Overall diameter | Weight approx. | BTC CODE |
|----------|---------|-----------------------|-----------------|---------------------|-----------------------|-------------------------|------------------|----------------|----------|
| uds | mm²/uds | mm | mm | mm | mm | mm | mm | kgr/km | |

| | | | | | | | | | |
|----|----------|-----|---|---|---|-----|-------|------|---------------------|
| 2 | 0.5mm²/1 | 0,5 | - | - | - | 0,9 | 8,76 | 96 | B5308P1T1B-2P05-13 |
| 3 | 0.5mm²/1 | 0,5 | - | - | - | 1,0 | 9,55 | 126 | B5308P1T1B-3P05-13 |
| 4 | 0.5mm²/1 | 0,5 | - | - | - | 1,1 | 10,64 | 160 | B5308P1T1B-4P05-13 |
| 5 | 0.5mm²/1 | 0,5 | - | - | - | 1,2 | 11,82 | 196 | B5308P1T1B-5P05-13 |
| 10 | 0.5mm²/1 | 0,5 | - | - | - | 1,2 | 15,34 | 317 | B5308P1T1B-10P05-13 |
| 12 | 0.5mm²/1 | 0,5 | - | - | - | 1,2 | 16,03 | 364 | B5308P1T1B-12P05-13 |
| 15 | 0.5mm²/1 | 0,5 | - | - | - | 1,3 | 17,80 | 449 | B5308P1T1B-15P05-13 |
| 20 | 0.5mm²/1 | 0,5 | - | - | - | 1,3 | 20,09 | 573 | B5308P1T1B-20P05-13 |
| 24 | 0.5mm²/1 | 0,5 | - | - | - | 1,5 | 22,32 | 696 | B5308P1T1B-24P05-13 |
| 30 | 0.5mm²/1 | 0,5 | - | - | - | 1,5 | 24,53 | 843 | B5308P1T1B-30P05-13 |
| 50 | 0.5mm²/1 | 0,5 | - | - | - | 2,0 | 31,63 | 1406 | B5308P1T1B-50P05-13 |

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|----|-----------|-----|---|---|---|-----|-------|------|---------------------|
| 2 | 0.5mm²/16 | 0,6 | - | - | - | 1,1 | 10,18 | 119 | B5308P1T1B-2P05-33 |
| 3 | 0.5mm²/16 | 0,6 | - | - | - | 1,1 | 10,85 | 146 | B5308P1T1B-3P05-33 |
| 4 | 0.5mm²/16 | 0,6 | - | - | - | 1,2 | 12,07 | 185 | B5308P1T1B-4P05-33 |
| 5 | 0.5mm²/16 | 0,6 | - | - | - | 1,2 | 13,20 | 217 | B5308P1T1B-5P05-33 |
| 10 | 0.5mm²/16 | 0,6 | - | - | - | 1,3 | 17,46 | 359 | B5308P1T1B-10P05-33 |
| 12 | 0.5mm²/16 | 0,6 | - | - | - | 1,3 | 18,26 | 412 | B5308P1T1B-12P05-33 |
| 15 | 0.5mm²/16 | 0,6 | - | - | - | 1,5 | 20,46 | 517 | B5308P1T1B-15P05-33 |
| 20 | 0.5mm²/16 | 0,6 | - | - | - | 1,5 | 23,11 | 656 | B5308P1T1B-20P05-33 |
| 24 | 0.5mm²/16 | 0,6 | - | - | - | 1,6 | 25,38 | 781 | B5308P1T1B-24P05-33 |
| 30 | 0.5mm²/16 | 0,6 | - | - | - | 1,7 | 28,14 | 959 | B5308P1T1B-30P05-33 |
| 50 | 0.5mm²/16 | 0,6 | - | - | - | 2,2 | 36,17 | 1589 | B5308P1T1B-50P05-33 |

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|----|-----------|-----|---|---|---|-----|-------|------|----------------------|
| 2 | 0.75mm²/7 | 0,6 | - | - | - | 1,1 | 10,86 | 134 | B5308P1T1B-2P075-23 |
| 3 | 0.75mm²/7 | 0,6 | - | - | - | 1,1 | 11,58 | 168 | B5308P1T1B-3P075-23 |
| 4 | 0.75mm²/7 | 0,6 | - | - | - | 1,2 | 12,89 | 213 | B5308P1T1B-4P075-23 |
| 5 | 0.75mm²/7 | 0,6 | - | - | - | 1,2 | 14,12 | 252 | B5308P1T1B-5P075-23 |
| 10 | 0.75mm²/7 | 0,6 | - | - | - | 1,3 | 18,74 | 424 | B5308P1T1B-10P075-23 |
| 12 | 0.75mm²/7 | 0,6 | - | - | - | 1,3 | 19,61 | 488 | B5308P1T1B-12P075-23 |
| 15 | 0.75mm²/7 | 0,6 | - | - | - | 1,5 | 21,97 | 612 | B5308P1T1B-15P075-23 |
| 20 | 0.75mm²/7 | 0,6 | - | - | - | 1,7 | 25,25 | 808 | B5308P1T1B-20P075-23 |
| 24 | 0.75mm²/7 | 0,6 | - | - | - | 1,8 | 27,69 | 960 | B5308P1T1B-24P075-23 |
| 30 | 0.75mm²/7 | 0,6 | - | - | - | 2,0 | 30,87 | 1194 | B5308P1T1B-30P075-23 |
| 50 | 0.75mm²/7 | 0,6 | - | - | - | 2,2 | 38,92 | 1897 | B5308P1T1B-50P075-23 |

| | | | | | | | | | |
|----|------------|-----|---|---|---|-----|-------|------|----------------------|
| 2 | 0.75mm²/24 | 0,6 | - | - | - | 1,1 | 10,86 | 135 | B5308P1T1B-2P075-33 |
| 3 | 0.75mm²/24 | 0,6 | - | - | - | 1,1 | 11,58 | 168 | B5308P1T1B-3P075-33 |
| 4 | 0.75mm²/24 | 0,6 | - | - | - | 1,2 | 12,89 | 213 | B5308P1T1B-4P075-33 |
| 5 | 0.75mm²/24 | 0,6 | - | - | - | 1,2 | 14,12 | 251 | B5308P1T1B-5P075-33 |
| 10 | 0.75mm²/24 | 0,6 | - | - | - | 1,3 | 18,74 | 423 | B5308P1T1B-10P075-33 |
| 12 | 0.75mm²/24 | 0,6 | - | - | - | 1,3 | 19,61 | 486 | B5308P1T1B-12P075-33 |
| 15 | 0.75mm²/24 | 0,6 | - | - | - | 1,5 | 21,97 | 611 | B5308P1T1B-15P075-33 |
| 20 | 0.75mm²/24 | 0,6 | - | - | - | 1,7 | 25,25 | 806 | B5308P1T1B-20P075-33 |
| 24 | 0.75mm²/24 | 0,6 | - | - | - | 1,8 | 27,69 | 958 | B5308P1T1B-24P075-33 |
| 30 | 0.75mm²/24 | 0,6 | - | - | - | 2,0 | 30,87 | 1191 | B5308P1T1B-30P075-33 |
| 50 | 0.75mm²/24 | 0,6 | - | - | - | 2,2 | 38,92 | 1892 | B5308P1T1B-50P075-33 |



| Nº Pairs | Cores | RT Insulation Nominal | RT Inner sheath | ∅ over inner sheath | ∅ of armour wire nom. | RT of outer sheath nom. | Overall diameter | Weight approx. | BTC CODE |
|----------|-----------------------|-----------------------|-----------------|---------------------|-----------------------|-------------------------|------------------|----------------|----------------------|
| uds | mm ² /uds | mm | mm | mm | mm | mm | mm | kgr/km | |
| 2 | 1mm ² /1 | 0,6 | - | - | - | 1,1 | 10,86 | 142 | B5308P1T1B-2P1-13 |
| 3 | 1mm ² /1 | 0,6 | - | - | - | 1,1 | 11,58 | 180 | B5308P1T1B-3P1-13 |
| 4 | 1mm ² /1 | 0,6 | - | - | - | 1,2 | 12,89 | 229 | B5308P1T1B-4P1-13 |
| 5 | 1mm ² /1 | 0,6 | - | - | - | 1,2 | 14,12 | 272 | B5308P1T1B-5P1-13 |
| 10 | 1mm ² /1 | 0,6 | - | - | - | 1,3 | 18,74 | 463 | B5308P1T1B-10P1-13 |
| 12 | 1mm ² /1 | 0,6 | - | - | - | 1,3 | 19,61 | 535 | B5308P1T1B-12P1-13 |
| 15 | 1mm ² /1 | 0,6 | - | - | - | 1,5 | 21,97 | 672 | B5308P1T1B-15P1-13 |
| 20 | 1mm ² /1 | 0,6 | - | - | - | 1,7 | 25,25 | 888 | B5308P1T1B-20P1-13 |
| 24 | 1mm ² /1 | 0,6 | - | - | - | 1,8 | 27,69 | 1055 | B5308P1T1B-24P1-13 |
| 30 | 1mm ² /1 | 0,6 | - | - | - | 2,0 | 30,87 | 1313 | B5308P1T1B-30P1-13 |
| 50 | 1mm ² /1 | 0,6 | - | - | - | 2,2 | 38,92 | 2095 | B5308P1T1B-50P1-13 |
| 2 | 1mm ² /7 | 0,6 | - | - | - | 1,1 | 11,54 | 151 | B5308P1T1B-2P1-23 |
| 3 | 1mm ² /7 | 0,6 | - | - | - | 1,2 | 12,51 | 196 | B5308P1T1B-3P1-23 |
| 4 | 1mm ² /7 | 0,6 | - | - | - | 1,2 | 13,71 | 243 | B5308P1T1B-4P1-23 |
| 5 | 1mm ² /7 | 0,6 | - | - | - | 1,2 | 15,04 | 288 | B5308P1T1B-5P1-23 |
| 10 | 1mm ² /7 | 0,6 | - | - | - | 1,3 | 20,02 | 491 | B5308P1T1B-10P1-23 |
| 12 | 1mm ² /7 | 0,6 | - | - | - | 1,5 | 21,36 | 590 | B5308P1T1B-12P1-23 |
| 15 | 1mm ² /7 | 0,6 | - | - | - | 1,5 | 23,48 | 712 | B5308P1T1B-15P1-23 |
| 20 | 1mm ² /7 | 0,6 | - | - | - | 1,7 | 27,00 | 940 | B5308P1T1B-20P1-23 |
| 24 | 1mm ² /7 | 0,6 | - | - | - | 1,7 | 29,40 | 1101 | B5308P1T1B-24P1-23 |
| 30 | 1mm ² /7 | 0,6 | - | - | - | 2,0 | 33,01 | 1391 | B5308P1T1B-30P1-23 |
| 50 | 1mm ² /7 | 0,6 | - | - | - | 2,2 | 41,68 | 2219 | B5308P1T1B-50P1-23 |
| 2 | 1.5mm ² /7 | 0,6 | - | - | - | 1,2 | 12,59 | 186 | B5308P1T1B-2P1.5-23 |
| 3 | 1.5mm ² /7 | 0,6 | - | - | - | 1,2 | 13,42 | 235 | B5308P1T1B-3P1.5-23 |
| 4 | 1.5mm ² /7 | 0,6 | - | - | - | 1,2 | 14,73 | 290 | B5308P1T1B-4P1.5-23 |
| 5 | 1.5mm ² /7 | 0,6 | - | - | - | 1,3 | 16,39 | 357 | B5308P1T1B-5P1.5-23 |
| 10 | 1.5mm ² /7 | 0,6 | - | - | - | 1,5 | 22,02 | 625 | B5308P1T1B-10P1.5-23 |
| 12 | 1.5mm ² /7 | 0,6 | - | - | - | 1,5 | 23,04 | 723 | B5308P1T1B-12P1.5-23 |
| 15 | 1.5mm ² /7 | 0,6 | - | - | - | 1,7 | 25,77 | 904 | B5308P1T1B-15P1.5-23 |
| 20 | 1.5mm ² /7 | 0,6 | - | - | - | 1,7 | 29,18 | 1158 | B5308P1T1B-20P1.5-23 |
| 24 | 1.5mm ² /7 | 0,6 | - | - | - | 2,0 | 32,39 | 1413 | B5308P1T1B-24P1.5-23 |
| 30 | 1.5mm ² /7 | 0,6 | - | - | - | 2,0 | 35,68 | 1713 | B5308P1T1B-30P1.5-23 |
| 50 | 1.5mm ² /7 | 0,6 | - | - | - | 2,2 | 45,13 | 2753 | B5308P1T1B-50P1.5-23 |
| 2 | 2.5mm ² /7 | 0,6 | - | - | - | 1,2 | 14,12 | 239 | B5308P1T1B-2P2.5-23 |
| 3 | 2.5mm ² /7 | 0,6 | - | - | - | 1,2 | 15,06 | 311 | B5308P1T1B-3P2.5-23 |
| 4 | 2.5mm ² /7 | 0,6 | - | - | - | 1,3 | 16,78 | 399 | B5308P1T1B-4P2.5-23 |
| 5 | 2.5mm ² /7 | 0,6 | - | - | - | 1,3 | 18,46 | 478 | B5308P1T1B-5P2.5-23 |
| 10 | 2.5mm ² /7 | 0,6 | - | - | - | 1,5 | 24,90 | 858 | B5308P1T1B-10P2.5-23 |
| 12 | 2.5mm ² /7 | 0,6 | - | - | - | 1,7 | 26,48 | 1027 | B5308P1T1B-12P2.5-23 |
| 15 | 2.5mm ² /7 | 0,6 | - | - | - | 1,7 | 29,17 | 1248 | B5308P1T1B-15P2.5-23 |
| 20 | 2.5mm ² /7 | 0,6 | - | - | - | 1,7 | 33,10 | 1611 | B5308P1T1B-20P2.5-23 |
| 24 | 2.5mm ² /7 | 0,6 | - | - | - | 2,0 | 36,69 | 1960 | B5308P1T1B-24P2.5-23 |
| 30 | 2.5mm ² /7 | 0,6 | - | - | - | 2,0 | 40,48 | 2393 | B5308P1T1B-30P2.5-23 |
| 50 | 2.5mm ² /7 | 0,6 | - | - | - | 2,3 | 51,53 | 3896 | B5308P1T1B-50P2.5-23 |