



PAS 5308 PART 2 TYPE 1 O SCREEN

| | |
|-------------|--|
| Cable | Instrument Cable |
| Standard | PAS 5308 |
| Voltage | 500V |
| Description | Copper, Single & Multi Pair, PVC- Insulation, Collective, PVC Sheath PAS 5308 Part 2 Type |
| Cable type | 1 |

Electrical data a 20°C

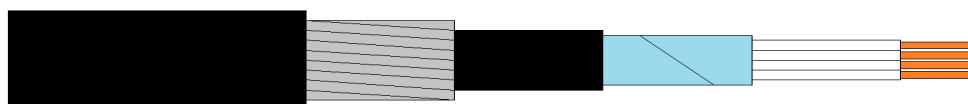
| Conductor size | Nom | mm ² | 0,5 | 0,75 | 1 | 1,5 | 2,5 |
|--|------|-----------------|-----|------|------|------|------|
| Conductor resistance solid / class 1 stranded / class 2 flexible / class 5 | Max | Ω/km | | | | | |
| | | | 36 | - | 18,1 | - | - |
| | | | - | 24,5 | 18,1 | 12,1 | 7,41 |
| | | | 39 | 26 | - | - | - |
| and additional 2% of the maximum resistance has been allowed for cable of multipair construction | | | | | | | |
| Insulation resistance Individual conductor Individual screen | Min. | MΩxkm | | | | | |
| | | | 25 | | | | |
| | | | - | | | | |
| Mutual capacitance 1kHz one pair, two pair and screen individually All other cables | Max. | nF/km | | | | | |
| | | | 115 | | 120 | 140 | |
| | | | 75 | | 85 | 105 | |
| L/R Ratio | Max. | μH/Ω | 25 | | 40 | 60 | |
| Test voltage | | V | | | | | |
| Ums core: core | | | | | 2000 | | |
| Ums core: screen | | | | | 2000 | | |

Properties for cable

| | |
|-------------------------------|----------------------------|
| Code Colour | PAS 5308 Part 2 Appendix A |
| 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 |

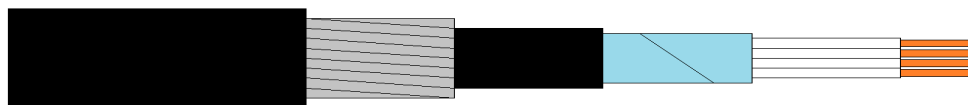


| Nº Pairs | Cores | RT Insulation Nominal | RT Inner sheath | Ø over inner sheath | Ø of armour wire nom. | RT of outer sheath nom. | Overall diameter | Weight approx. | BTC CODE |
|----------|----------------------|-----------------------|-----------------|---------------------|-----------------------|-------------------------|------------------|----------------|----------|
| uds | mm ² /uds | mm | mm | mm | mm | mm | mm | kgr/km | |

| | | | | | | | | | |
|------------|-----------------------|-----|---|---|---|-----|-------|------|---------------------|
| 1 | 0.5mm ² /1 | 0,5 | - | - | - | 0,8 | 5,50 | 52 | P5308P2T1B-1P05-11 |
| 1 (triple) | 0.5mm ² /1 | 0,5 | - | - | - | 0,8 | 5,77 | 60 | P5308P2T1B-1T05-11 |
| 2 (quad) | 0.5mm ² /1 | 0,5 | - | - | - | 0,8 | 6,24 | 71 | P5308P2T1B-1Q05-11 |
| 3 | 0.5mm ² /1 | 0,5 | - | - | - | 0,9 | 8,77 | 100 | P5308P2T1B-3P05-11 |
| 4 | 0.5mm ² /1 | 0,5 | - | - | - | 0,9 | 9,58 | 121 | P5308P2T1B-4P05-11 |
| 5 | 0.5mm ² /1 | 0,5 | - | - | - | 1,0 | 10,68 | 149 | P5308P2T1B-5P05-11 |
| 10 | 0.5mm ² /1 | 0,5 | - | - | - | 1,1 | 14,12 | 246 | P5308P2T1B-10P05-11 |
| 12 | 0.5mm ² /1 | 0,5 | - | - | - | 1,1 | 14,75 | 282 | P5308P2T1B-12P05-11 |
| 15 | 0.5mm ² /1 | 0,5 | - | - | - | 1,2 | 16,39 | 347 | P5308P2T1B-15P05-11 |
| 20 | 0.5mm ² /1 | 0,5 | - | - | - | 1,3 | 18,70 | 451 | P5308P2T1B-20P05-11 |
| 24 | 0.5mm ² /1 | 0,5 | - | - | - | 1,4 | 20,59 | 538 | P5308P2T1B-24P05-11 |
| 30 | 0.5mm ² /1 | 0,5 | - | - | - | 1,5 | 22,82 | 661 | P5308P2T1B-30P05-11 |
| 50 | 0.5mm ² /1 | 0,5 | - | - | - | 1,7 | 28,82 | 1055 | P5308P2T1B-50P05-11 |

| | | | | | | | | | |
|------------|------------------------|-----|---|---|---|-----|-------|------|---------------------|
| 1 | 0.5mm ² /16 | 0,6 | - | - | - | 0,8 | 6,10 | 61 | P5308P2T1B-1P05-31 |
| 1 (triple) | 0.5mm ² /16 | 0,6 | - | - | - | 0,8 | 6,42 | 69 | P5308P2T1B-1T05-31 |
| 2 (quad) | 0.5mm ² /16 | 0,6 | - | - | - | 0,8 | 6,96 | 83 | P5308P2T1B-1Q05-31 |
| 3 | 0.5mm ² /16 | 0,6 | - | - | - | 0,9 | 9,87 | 114 | P5308P2T1B-3P05-31 |
| 4 | 0.5mm ² /16 | 0,6 | - | - | - | 0,9 | 10,81 | 137 | P5308P2T1B-4P05-31 |
| 5 | 0.5mm ² /16 | 0,6 | - | - | - | 1,0 | 12,06 | 169 | P5308P2T1B-5P05-31 |
| 10 | 0.5mm ² /16 | 0,6 | - | - | - | 1,1 | 16,04 | 282 | P5308P2T1B-10P05-31 |
| 12 | 0.5mm ² /16 | 0,6 | - | - | - | 1,1 | 16,78 | 322 | P5308P2T1B-12P05-31 |
| 15 | 0.5mm ² /16 | 0,6 | - | - | - | 1,2 | 18,66 | 397 | P5308P2T1B-15P05-31 |
| 20 | 0.5mm ² /16 | 0,6 | - | - | - | 1,3 | 21,31 | 516 | P5308P2T1B-20P05-31 |
| 24 | 0.5mm ² /16 | 0,6 | - | - | - | 1,4 | 23,46 | 616 | P5308P2T1B-24P05-31 |
| 30 | 0.5mm ² /16 | 0,6 | - | - | - | 1,5 | 26,03 | 757 | P5308P2T1B-30P05-31 |
| 50 | 0.5mm ² /16 | 0,6 | - | - | - | 1,7 | 32,96 | 1209 | P5308P2T1B-50P05-31 |

| | | | | | | | | | |
|------------|------------------------|-----|---|---|---|-----|-------|------|----------------------|
| 1 | 0.75mm ² /7 | 0,6 | - | - | - | 0,8 | 6,50 | 71 | P5308P2T1B-1P075-21 |
| 1 (triple) | 0.75mm ² /7 | 0,6 | - | - | - | 0,8 | 6,85 | 83 | P5308P2T1B-1T075-21 |
| 2 (quad) | 0.75mm ² /7 | 0,6 | - | - | - | 0,8 | 7,44 | 99 | P5308P2T1B-1Q075-21 |
| 3 | 0.75mm ² /7 | 0,6 | - | - | - | 0,9 | 10,60 | 137 | P5308P2T1B-3P075-21 |
| 4 | 0.75mm ² /7 | 0,6 | - | - | - | 0,9 | 11,63 | 168 | P5308P2T1B-4P075-21 |
| 5 | 0.75mm ² /7 | 0,6 | - | - | - | 1,0 | 12,98 | 208 | P5308P2T1B-5P075-21 |
| 10 | 0.75mm ² /7 | 0,6 | - | - | - | 1,2 | 17,52 | 363 | P5308P2T1B-10P075-21 |
| 12 | 0.75mm ² /7 | 0,6 | - | - | - | 1,2 | 18,33 | 418 | P5308P2T1B-12P075-21 |
| 15 | 0.75mm ² /7 | 0,6 | - | - | - | 1,3 | 20,37 | 515 | P5308P2T1B-15P075-21 |
| 20 | 0.75mm ² /7 | 0,6 | - | - | - | 1,4 | 23,26 | 670 | P5308P2T1B-20P075-21 |
| 24 | 0.75mm ² /7 | 0,6 | - | - | - | 1,4 | 25,37 | 784 | P5308P2T1B-24P075-21 |
| 30 | 0.75mm ² /7 | 0,6 | - | - | - | 1,5 | 28,16 | 967 | P5308P2T1B-30P075-21 |
| 50 | 0.75mm ² /7 | 0,6 | - | - | - | 1,8 | 35,92 | 1575 | P5308P2T1B-50P075-21 |

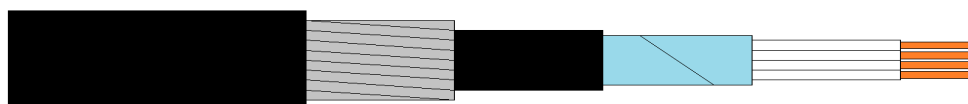


| Nº Pairs | Cores | RT Insulation Nominal | RT Inner sheath | Ø over inner sheath | Ø of armour wire nom. | RT of outer sheath nom. | Overall diameter | Weight approx. | BTC CODE |
|----------|----------------------|-----------------------|-----------------|---------------------|-----------------------|-------------------------|------------------|----------------|----------|
| uds | mm ² /uds | mm | mm | mm | mm | mm | mm | kgr/km | |

| | | | | | | | | | |
|------------|-------------------------|-----|---|---|---|-----|-------|------|----------------------|
| 1 | 0.75mm ² /24 | 0,6 | - | - | - | 0,8 | 6,50 | 71 | P5308P2T1B-1P075-31 |
| 1 (triple) | 0.75mm ² /24 | 0,6 | - | - | - | 0,8 | 6,85 | 81 | P5308P2T1B-1T075-31 |
| 2 (quad) | 0.75mm ² /24 | 0,6 | - | - | - | 0,8 | 7,44 | 97 | P5308P2T1B-1Q075-31 |
| 3 | 0.75mm ² /24 | 0,6 | - | - | - | 0,9 | 10,60 | 135 | P5308P2T1B-3P075-31 |
| 4 | 0.75mm ² /24 | 0,6 | - | - | - | 0,9 | 11,63 | 165 | P5308P2T1B-4P075-31 |
| 5 | 0.75mm ² /24 | 0,6 | - | - | - | 1,0 | 12,98 | 203 | P5308P2T1B-5P075-31 |
| 10 | 0.75mm ² /24 | 0,6 | - | - | - | 1,2 | 17,52 | 355 | P5308P2T1B-10P075-31 |
| 12 | 0.75mm ² /24 | 0,6 | - | - | - | 1,2 | 18,33 | 408 | P5308P2T1B-12P075-31 |
| 15 | 0.75mm ² /24 | 0,6 | - | - | - | 1,3 | 20,37 | 502 | P5308P2T1B-15P075-31 |
| 20 | 0.75mm ² /24 | 0,6 | - | - | - | 1,4 | 23,26 | 653 | P5308P2T1B-20P075-31 |
| 24 | 0.75mm ² /24 | 0,6 | - | - | - | 1,4 | 25,37 | 764 | P5308P2T1B-24P075-31 |
| 30 | 0.75mm ² /24 | 0,6 | - | - | - | 1,5 | 28,16 | 942 | P5308P2T1B-30P075-31 |
| 50 | 0.75mm ² /24 | 0,6 | - | - | - | 1,8 | 35,92 | 1533 | P5308P2T1B-50P075-31 |

| | | | | | | | | | |
|------------|---------------------|-----|---|---|---|-----|-------|------|--------------------|
| 1 | 1mm ² /1 | 0,6 | - | - | - | 0,8 | 6,50 | 75 | P5308P2T1B-1P1-11 |
| 1 (triple) | 1mm ² /1 | 0,6 | - | - | - | 0,8 | 6,85 | 89 | P5308P2T1B-1T1-11 |
| 2 (quad) | 1mm ² /1 | 0,6 | - | - | - | 0,8 | 7,44 | 107 | P5308P2T1B-1Q1-11 |
| 3 | 1mm ² /1 | 0,6 | - | - | - | 0,9 | 10,60 | 149 | P5308P2T1B-3P1-11 |
| 4 | 1mm ² /1 | 0,6 | - | - | - | 0,9 | 11,63 | 184 | P5308P2T1B-4P1-11 |
| 5 | 1mm ² /1 | 0,6 | - | - | - | 1,0 | 12,98 | 227 | P5308P2T1B-5P1-11 |
| 10 | 1mm ² /1 | 0,6 | - | - | - | 1,2 | 17,52 | 403 | P5308P2T1B-10P1-11 |
| 12 | 1mm ² /1 | 0,6 | - | - | - | 1,2 | 18,33 | 465 | P5308P2T1B-12P1-11 |
| 15 | 1mm ² /1 | 0,6 | - | - | - | 1,3 | 20,37 | 574 | P5308P2T1B-15P1-11 |
| 20 | 1mm ² /1 | 0,6 | - | - | - | 1,4 | 23,26 | 748 | P5308P2T1B-20P1-11 |
| 24 | 1mm ² /1 | 0,6 | - | - | - | 1,4 | 25,37 | 879 | P5308P2T1B-24P1-11 |
| 30 | 1mm ² /1 | 0,6 | - | - | - | 1,5 | 28,16 | 1085 | P5308P2T1B-30P1-11 |
| 50 | 1mm ² /1 | 0,6 | - | - | - | 1,8 | 35,92 | 1771 | P5308P2T1B-50P1-11 |

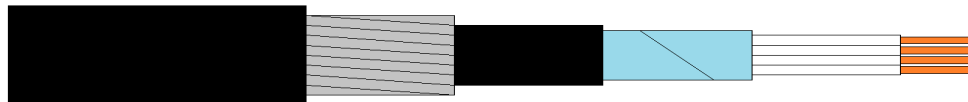
| | | | | | | | | | |
|------------|---------------------|-----|---|---|---|-----|-------|------|--------------------|
| 1 | 1mm ² /7 | 0,6 | - | - | - | 0,8 | 6,90 | 82 | P5308P2T1B-1P1-21 |
| 1 (triple) | 1mm ² /7 | 0,6 | - | - | - | 0,8 | 7,28 | 96 | P5308P2T1B-1T1-21 |
| 2 (quad) | 1mm ² /7 | 0,6 | - | - | - | 0,8 | 7,93 | 116 | P5308P2T1B-1Q1-21 |
| 3 | 1mm ² /7 | 0,6 | - | - | - | 0,9 | 11,33 | 160 | P5308P2T1B-3P1-21 |
| 4 | 1mm ² /7 | 0,6 | - | - | - | 0,9 | 12,45 | 198 | P5308P2T1B-4P1-21 |
| 5 | 1mm ² /7 | 0,6 | - | - | - | 1,0 | 13,90 | 245 | P5308P2T1B-5P1-21 |
| 10 | 1mm ² /7 | 0,6 | - | - | - | 1,2 | 18,80 | 434 | P5308P2T1B-10P1-21 |
| 12 | 1mm ² /7 | 0,6 | - | - | - | 1,2 | 19,68 | 502 | P5308P2T1B-12P1-21 |
| 15 | 1mm ² /7 | 0,6 | - | - | - | 1,3 | 21,88 | 619 | P5308P2T1B-15P1-21 |
| 20 | 1mm ² /7 | 0,6 | - | - | - | 1,4 | 25,00 | 808 | P5308P2T1B-20P1-21 |
| 24 | 1mm ² /7 | 0,6 | - | - | - | 1,4 | 27,28 | 949 | P5308P2T1B-24P1-21 |
| 30 | 1mm ² /7 | 0,6 | - | - | - | 1,5 | 30,30 | 1172 | P5308P2T1B-30P1-21 |
| 50 | 1mm ² /7 | 0,6 | - | - | - | 1,8 | 38,68 | 1913 | P5308P2T1B-50P1-21 |



| Nº Pairs | Cores | RT Insulation Nominal | RT Inner sheath | Ø over inner sheath | Ø 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 | |

| | | | | | | | | | |
|------------|-----------------------|-----|---|---|---|-----|-------|------|----------------------|
| 1 | 1.5mm ² /7 | 0,6 | - | - | - | 0,8 | 7,40 | 98 | P5308P2T1B-1P1.5-21 |
| 1 (triple) | 1.5mm ² /7 | 0,6 | - | - | - | 0,9 | 8,01 | 121 | P5308P2T1B-1T1.5-21 |
| 2 (quad) | 1.5mm ² /7 | 0,6 | - | - | - | 0,9 | 8,73 | 147 | P5308P2T1B-1Q1.5-21 |
| 3 | 1.5mm ² /7 | 0,6 | - | - | - | 1,0 | 12,44 | 204 | P5308P2T1B-3P1.5-21 |
| 4 | 1.5mm ² /7 | 0,6 | - | - | - | 1,0 | 13,68 | 253 | P5308P2T1B-4P1.5-21 |
| 5 | 1.5mm ² /7 | 0,6 | - | - | - | 1,1 | 15,25 | 312 | P5308P2T1B-5P1.5-21 |
| 10 | 1.5mm ² /7 | 0,6 | - | - | - | 1,3 | 20,60 | 557 | P5308P2T1B-10P1.5-21 |
| 12 | 1.5mm ² /7 | 0,6 | - | - | - | 1,3 | 21,56 | 646 | P5308P2T1B-12P1.5-21 |
| 15 | 1.5mm ² /7 | 0,6 | - | - | - | 1,4 | 23,96 | 797 | P5308P2T1B-15P1.5-21 |
| 20 | 1.5mm ² /7 | 0,6 | - | - | - | 1,5 | 27,38 | 1041 | P5308P2T1B-20P1.5-21 |
| 24 | 1.5mm ² /7 | 0,6 | - | - | - | 1,6 | 30,06 | 1242 | P5308P2T1B-24P1.5-21 |
| 30 | 1.5mm ² /7 | 0,6 | - | - | - | 1,7 | 33,37 | 1532 | P5308P2T1B-30P1.5-21 |
| 50 | 1.5mm ² /7 | 0,6 | - | - | - | 2,1 | 42,72 | 2520 | P5308P2T1B-50P1.5-21 |

| | | | | | | | | | |
|------------|-----------------------|-----|---|---|---|-----|-------|------|----------------------|
| 1 | 2.5mm ² /7 | 0,6 | - | - | - | 0,8 | 8,30 | 131 | P5308P2T1B-1P2.5-21 |
| 1 (triple) | 2.5mm ² /7 | 0,6 | - | - | - | 0,9 | 8,98 | 164 | P5308P2T1B-1T2.5-21 |
| 2 (quad) | 2.5mm ² /7 | 0,6 | - | - | - | 0,9 | 9,81 | 201 | P5308P2T1B-1Q2.5-21 |
| 3 | 2.5mm ² /7 | 0,6 | - | - | - | 1,0 | 14,08 | 277 | P5308P2T1B-3P2.5-21 |
| 4 | 2.5mm ² /7 | 0,6 | - | - | - | 1,1 | 15,72 | 358 | P5308P2T1B-4P2.5-21 |
| 5 | 2.5mm ² /7 | 0,6 | - | - | - | 1,2 | 17,52 | 443 | P5308P2T1B-5P2.5-21 |
| 10 | 2.5mm ² /7 | 0,6 | - | - | - | 1,4 | 23,68 | 800 | P5308P2T1B-10P2.5-21 |
| 12 | 2.5mm ² /7 | 0,6 | - | - | - | 1,5 | 25,00 | 945 | P5308P2T1B-12P2.5-21 |
| 15 | 2.5mm ² /7 | 0,6 | - | - | - | 1,6 | 27,76 | 1167 | P5308P2T1B-15P2.5-21 |
| 20 | 2.5mm ² /7 | 0,6 | - | - | - | 1,7 | 31,70 | 1525 | P5308P2T1B-20P2.5-21 |
| 24 | 2.5mm ² /7 | 0,6 | - | - | - | 1,8 | 34,76 | 1818 | P5308P2T1B-24P2.5-21 |
| 30 | 2.5mm ² /7 | 0,6 | - | - | - | 1,9 | 38,58 | 2244 | P5308P2T1B-30P2.5-21 |
| 50 | 2.5mm ² /7 | 0,6 | - | - | - | 2,3 | 49,33 | 3687 | P5308P2T1B-50P2.5-21 |



Appendix A

| | | | | |
|----------------------|----------|-------|------|--------|
| 1 Triad Cable | 1 | White | Blue | Orange |
|----------------------|----------|-------|------|--------|

| | | | | | |
|---------------------|----------|-------|------|-------|-------|
| 1 Quad Cable | 1 | Black | Blue | Green | Brown |
|---------------------|----------|-------|------|-------|-------|

| | | | | | | |
|--|-----------|------------|--------|-----------|--------------|--------|
| 1 Pair Cables to 50 Pair Cables | 1 | White | Blue | 26 | Red-Blue | Blue |
| | 2 | White | Orange | 27 | Red-Blue | Orange |
| | 3 | White | Green | 28 | Red-Blue | Green |
| | 4 | White | Brown | 29 | Red-Blue | Brown |
| | 5 | White | Grey | 30 | Red-Blue | Grey |
| | 6 | Red | Blue | 31 | Blue-Black | Blue |
| | 7 | Red | Orange | 32 | Blue-Black | Orange |
| | 8 | Red | Green | 33 | Blue-Black | Green |
| | 9 | Red | Brown | 34 | Blue-Black | Brown |
| | 10 | Red | Grey | 35 | Blue-Black | Grey |
| | 11 | Black | Blue | 36 | Yellow-Black | Blue |
| | 12 | Black | Orange | 37 | Yellow-Black | Orange |
| | 13 | Black | Green | 38 | Yellow-Black | Green |
| | 14 | Black | Brown | 39 | Yellow-Black | Brown |
| | 15 | Black | Grey | 40 | Yellow-Black | Grey |
| | 16 | Yellow | Blue | 41 | White-Orange | Blue |
| | 17 | Yellow | Orange | 42 | White-Orange | Orange |
| | 18 | Yellow | Green | 43 | White-Orange | Green |
| | 19 | Yellow | Brown | 44 | White-Orange | Brown |
| | 20 | Yellow | Grey | 45 | White-Orange | Grey |
| | 21 | White-Blue | Blue | 46 | Orange-Red | Blue |
| | 22 | White-Blue | Orange | 47 | Orange-Red | Orange |
| | 23 | White-Blue | Green | 48 | Orange-Red | Green |
| | 24 | White-Blue | Brown | 49 | Orange-Red | Brown |
| | 25 | White-Blue | Grey | 50 | Orange-Red | Grey |