

Controlflex® “SY” Type

PVC Insulated, GSWB, Flexible Cable 300/500 V 80°C



Application

These flexible cables are designed for industrial control and instrumentation circuits and interconnections between mobile and fixed equipment. Incorporates steel wire braid screen for additional mechanical protection. Cables are not recommended for applications where cable is likely to be subjected to repetitive flexing and/or twisting e.g. robotics, reeling drum, cranes etc. Details on dynamic types available on request.

Specifications

- Generally in accordance with BS6500 and VDE0250
- **Conductors:** Flexible (Class 5) copper conductors to BS EN 60228, plain
- **Insulation:** PVC insulation TI.2 to BS EN 50363-3, Type YI.2 to DIN VDE 0207 Pt 4
- **Core Identification:** Cores will be number printed, in a contrasting colour, on black PVC insulation. All cables of three core and above will incorporate a green/yellow earth core in the outer layer
- **Inner Sheath:** PVC inner sheath Type TM.2 to BS EN 50363-4-1, Type YM.2 to DIN VDE 0207 Pt 5
- Galvanised steel wire braid (minimum coverage 60%).
- **Outer Sheath:** Transparent PVC outer sheath
- Flame retardant to BS EN 60332-1-2 & IEC60332-1
- **Voltage Rating:** 300/500 V
- **Temperature Rating:** 80°C maximum conductor operating temperature

Add suffix -KL to part number for cables up to 3 core having coloured cores, or -HKL for 4 and 5 core cables as follows:
e.g. A4AT-C003-KL or A4AT-C005-HKL.

2 core - blue, brown.

3 core - green/yellow, blue, brown.

4 core - green/yellow, brown, black, grey.

5 core - green/yellow, brown, black, grey, blue.

For further technical information refer to the end of the section.

The number and size of wires #/mm are nominal and may be changed dependent on supply.

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| Anixter Number | Number of Cores | Nominal Conductor Size | Nominal Number and Size of Wires | Nominal O/D | Approx Cable Weight |
|----------------|-----------------|------------------------|----------------------------------|-------------|---------------------|
| | | mm ² | #/mm | mm | kg/km |
| A4AQ-C002 | 2 | 0.5 | 16/0.20 | 5.3 | 84 |
| A4AQ-C003 | 3 | 0.5 | 16/0.20 | 6.3 | 85 |
| A4AQ-C004 | 4 | 0.5 | 16/0.20 | 7.3 | 82 |
| A4AQ-C005 | 5 | 0.5 | 16/0.20 | 8.3 | 90 |
| A4AQ-C007 | 7 | 0.5 | 16/0.20 | 9.3 | 117 |
| A4AQ-C012 | 12 | 0.5 | 16/0.20 | 10.6 | 153 |
| A4AQ-C018 | 18 | 0.5 | 16/0.20 | 11.6 | 255 |
| | | | | | |
| A4AR-C002 | 2 | 0.75 | 24/0.20 | 7.5 | 73 |
| A4AR-C003 | 3 | 0.75 | 24/0.20 | 7.8 | 82 |
| A4AR-C004 | 4 | 0.75 | 24/0.20 | 8.2 | 89 |
| A4AR-C005 | 5 | 0.75 | 24/0.20 | 8.8 | 101 |
| A4AR-C007 | 7 | 0.75 | 24/0.20 | 9.1 | 127 |
| A4AR-C012 | 12 | 0.75 | 24/0.20 | 11.5 | 187 |
| A4AR-C014 | 14 | 0.75 | 24/0.20 | 12.1 | 210 |
| A4AR-C018 | 18 | 0.75 | 24/0.20 | 13.3 | 258 |
| A4AR-C025 | 25 | 0.75 | 24/0.20 | 16.3 | 370 |
| | | | | | |
| A4AS-C002 | 2 | 1 | 32/0.20 | 7.7 | 79 |
| A4AS-C003 | 3 | 1 | 32/0.20 | 8.0 | 90 |
| A4AS-C004 | 4 | 1 | 32/0.20 | 8.5 | 106 |
| A4AS-C005 | 5 | 1 | 32/0.20 | 9.1 | 119 |
| A4AS-C007 | 7 | 1 | 32/0.20 | 9.7 | 145 |
| A4AS-C010 | 10 | 1 | 32/0.20 | 11.0 | 195 |
| A4AS-C012 | 12 | 1 | 32/0.20 | 12.1 | 226 |
| A4AS-C018 | 18 | 1 | 32/0.20 | 13.8 | 311 |
| A4AS-C020 | 20 | 1 | 32/0.20 | 14.5 | 375 |

Continued overleaf...

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PVC Insulated, GSWB, Flexible Cable 300/500 V 80°C (continued)

| Anixter Number | Number of Cores | Nominal Conductor Size | Nominal Number and Size of Wires | Nominal O/D | Approx Cable Weight |
|----------------|-----------------|------------------------|----------------------------------|-------------|---------------------|
| | | mm ² | #/mm | mm | kg/km |
| A4AS-C025 | 25 | 1 | 32/0.20 | 16.9 | 438 |
| A4AS-C032 | 32 | 1 | 32/0.20 | 18.5 | 561 |
| A4AT-C002 | 2 | 1.5 | 30/0.25 | 8.5 | 96 |
| A4AT-C003 | 3 | 1.5 | 30/0.25 | 8.5 | 117 |
| A4AT-C004 | 4 | 1.5 | 30/0.25 | 9.2 | 132 |
| A4AT-C005 | 5 | 1.5 | 30/0.25 | 9.7 | 147 |
| A4AT-C007 | 7 | 1.5 | 30/0.25 | 10.6 | 184 |
| A4AT-C012 | 12 | 1.5 | 30/0.25 | 13.5 | 293 |
| A4AT-C018 | 18 | 1.5 | 30/0.25 | 16.3 | 433 |
| A4AT-C025 | 25 | 1.5 | 30/0.25 | 19.0 | 572 |
| A4AT-C032 | 32 | 1.5 | 30/0.25 | 21.2 | 739 |
| A4AU-C002 | 2 | 2.5 | 50/0.25 | 9.2 | 130 |
| A4AU-C003 | 3 | 2.5 | 50/0.25 | 9.7 | 155 |
| A4AU-C004 | 4 | 2.5 | 50/0.25 | 10.7 | 191 |
| A4AU-C005 | 5 | 2.5 | 50/0.25 | 11.5 | 224 |
| A4AU-C007 | 7 | 2.5 | 50/0.25 | 12.6 | 285 |
| A4AU-C012 | 12 | 2.5 | 50/0.25 | 16.6 | 460 |
| A4AU-C018 | 18 | 2.5 | 50/0.25 | 19.3 | 654 |
| A4AU-C025 | 25 | 2.5 | 50/0.25 | 23.2 | 891 |
| A4AV-C003 | 3 | 4 | 56/0.30 | 11.4 | 216 |
| A4AV-C004 | 4 | 4 | 56/0.30 | 12.3 | 271 |
| A4AV-C005 | 5 | 4 | 56/0.30 | 13.8 | 330 |
| A4AV-C007 | 7 | 4 | 56/0.30 | 15.4 | 442 |

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| Anixter Number | Number of Cores | Nominal Conductor Size | Nominal Number and Size of Wires | Nominal O/D | Approx Cable Weight |
|----------------|-----------------|------------------------|----------------------------------|-------------|---------------------|
| | | mm ² | #/mm | mm | kg/km |
| A4AW-C004 | 4 | 6 | 84/0.30 | 14.5 | 379 |
| A4AW-C005 | 5 | 6 | 84/0.30 | 16.4 | 474 |
| A4AX-C003 | 3 | 10 | 80/0.40 | 16.3 | 483 |
| A4AX-C004 | 4 | 10 | 80/0.40 | 18.0 | 608 |
| A4AX-C005 | 5 | 10 | 80/0.40 | 19.5 | 734 |
| A4AY-C003 | 3 | 16 | 126/0.40 | 20.0 | 800 |
| A4AY-C004 | 4 | 16 | 126/0.40 | 21.8 | 945 |
| A4AY-C005 | 5 | 16 | 126/0.40 | 23.4 | 1123 |
| A4AZ-C003 | 3 | 25 | 196/0.40 | 23.5 | 1200 |
| A4AZ-C004 | 4 | 25 | 196/0.40 | 25.1 | 1349 |
| A4AZ-C005 | 5 | 25 | 196/0.40 | 28.3 | 1670 |
| A4EA-C004 | 4 | 35 | 276/0.40 | 29.6 | 1839 |
| A4EA-C005 | 5 | 35 | 276/0.40 | 32.0 | 2197 |

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e.g. A4AT-C003-KL or A4AT-C005-HKL.

2 core - blue, brown.

3 core - green/yellow, blue, brown.

4 core - green/yellow, brown, black, grey.

5 core - green/yellow, brown, black, grey, blue.

For F2 compliant meeting NBN C30-004 (IEC60332-3-24 Cat. C) add suffix -F2 e.g. A4AN-C002-F2.

For further technical information, refer to the end of the section.