

2 Controlflex® “CY” Type

3 PVC Insulated, Screened Flexible Cable 300/500 V 70°C



4 Application

5 These flexible cables are designed for industrial control and instrumentation circuits and interconnections between mobile and fixed equipment. Incorporates a collective tinned copper wire braid screen for electrical 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.

6 Specifications

- 7 • Generally in accordance with BS6500 and VDE0250
- 8 • **Conductors:** Flexible (Class 5) copper conductors to BS EN 60228, plain
- 9 • **Insulation:** PVC insulation Tl.2 to BS EN 50363-3, Type Yl.2 to DIN VDE 0207 Pt 4
- 10 • **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
- 11 • **Binder Tape:** p.e.t.p. tape
- 12 • Tinned copper wire braid. Minimum coverage 70%
- 13 • Grey PVC sheath Type TM.2 to BS EN 50363-4-1, Type YM.2 to DIN VDE 0207 Pt 5.RAL 7000
- 14 • Flame retardant to BS EN 60332-1-2 & IEC 60332-1
- 15 • **Voltage Rating:** 300/500 V
- 16 • **Temperature Rating:** 70°C maximum conductor operating temperature

17 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:
18 e.g. A4AN-C003-KL or A4AN-C005-HKL.

19 2 core - blue, brown.

20 3 core - green/yellow, blue, brown.

21 4 core - green/yellow, brown, black, grey.

22 5 core - green/yellow, brown, black, grey, blue.

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

24 For Low Smoke Zero Halogen versions refer to page 3:20.

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PVC Insulated, Screened Flexible Cable 300/500 V 70°C

| 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 |
| A4AK-C002 | 2 | 0.5 | 16/0.20 | 5.4 | 45 |
| A4AK-C003 | 3 | 0.5 | 16/0.20 | 5.8 | 53 |
| A4AK-C004 | 4 | 0.5 | 16/0.20 | 6.3 | 63 |
| A4AK-C005 | 5 | 0.5 | 16/0.20 | 6.7 | 76 |
| A4AK-C007 | 7 | 0.5 | 16/0.20 | 7.3 | 107 |
| A4AK-C010 | 10 | 0.5 | 16/0.20 | 8.5 | 120 |
| A4AK-C012 | 12 | 0.5 | 16/0.20 | 9.2 | 140 |
| A4AK-C018 | 18 | 0.5 | 16/0.20 | 10.2 | 179 |
| A4AK-C020 | 20 | 0.5 | 16/0.20 | 11.2 | 200 |
| A4AK-C025 | 25 | 0.5 | 16/0.20 | 13.3 | 256 |
| | | | | | |
| A4AL-C002 | 2 | 0.75 | 24/0.20 | 6.0 | 54 |
| A4AL-C003 | 3 | 0.75 | 24/0.20 | 6.3 | 65 |
| A4AL-C004 | 4 | 0.75 | 24/0.20 | 6.8 | 77 |
| A4AL-C005 | 5 | 0.75 | 24/0.20 | 7.3 | 91 |
| A4AL-C006 | 6 | 0.75 | 24/0.20 | 7.8 | 102 |
| A4AL-C007 | 7 | 0.75 | 24/0.20 | 7.8 | 115 |
| A4AL-C010 | 10 | 0.75 | 24/0.20 | 9.6 | 150 |
| A4AL-C012 | 12 | 0.75 | 24/0.20 | 10.1 | 177 |
| A4AL-C018 | 18 | 0.75 | 24/0.20 | 11.6 | 250 |
| A4AL-C020 | 20 | 0.75 | 24/0.20 | 14.1 | 294 |
| A4AL-C025 | 25 | 0.75 | 24/0.20 | 13.9 | 326 |
| A4AL-C032 | 32 | 0.75 | 24/0.20 | 15.6 | 406 |
| A4AL-C040 | 40 | 0.75 | 24/0.20 | 17.0 | 540 |
| | | | | | |
| A4AM-C002 | 2 | 1 | 32/0.20 | 6.2 | 60 |
| A4AM-C003 | 3 | 1 | 32/0.20 | 6.5 | 73 |
| A4AM-C004 | 4 | 1 | 32/0.20 | 7.0 | 89 |
| A4AM-C005 | 5 | 1 | 32/0.20 | 7.6 | 105 |
| A4AM-C007 | 7 | 1 | 32/0.20 | 8.4 | 139 |
| A4AM-C010 | 10 | 1 | 32/0.20 | 9.7 | 165 |
| A4AM-C012 | 12 | 1 | 32/0.20 | 10.4 | 207 |
| A4AM-C015 | 15 | 1 | 32/0.20 | 11.4 | 250 |
| A4AM-C018 | 18 | 1 | 32/0.20 | 12.4 | 295 |
| A4AM-C025 | 25 | 1 | 32/0.20 | 14.9 | 384 |
| A4AM-C030 | 30 | 1 | 32/0.20 | 16.0 | 480 |
| A4AM-C032 | 32 | 1 | 32/0.20 | 16.6 | 510 |

Continued overleaf...

Controlflex® “CY” Type

PVC Insulated, Screened Flexible Cable 300/500 V 70°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 |
| A4AN-C002 | 2 | 1.5 | 30/0.25 | 6.8 | 70 |
| A4AN-C003 | 3 | 1.5 | 30/0.25 | 7.2 | 90 |
| A4AN-C004 | 4 | 1.5 | 30/0.25 | 7.8 | 108 |
| A4AN-C005 | 5 | 1.5 | 30/0.25 | 8.4 | 125 |
| A4AN-C007 | 7 | 1.5 | 30/0.25 | 9.3 | 160 |
| A4AN-C010 | 10 | 1.5 | 30/0.25 | 10.5 | 220 |
| A4AN-C012 | 12 | 1.5 | 30/0.25 | 11.8 | 279 |
| A4AN-C018 | 18 | 1.5 | 30/0.25 | 14.0 | 350 |
| A4AN-C020 | 20 | 1.5 | 30/0.25 | 15.0 | 395 |
| A4AN-C025 | 25 | 1.5 | 30/0.25 | 16.9 | 530 |
| A4AN-C030 | 30 | 1.5 | 30/0.25 | 18.0 | 680 |
| A4AN-C032 | 32 | 1.5 | 30/0.25 | 18.9 | 720 |
| | | | | | |
| A4AO-C002 | 2 | 2.5 | 50/0.25 | 8.0 | 104 |
| A4AO-C003 | 3 | 2.5 | 50/0.25 | 8.6 | 140 |
| A4AO-C004 | 4 | 2.5 | 50/0.25 | 9.4 | 173 |
| A4AO-C005 | 5 | 2.5 | 50/0.25 | 10.0 | 206 |
| A4AO-C007 | 7 | 2.5 | 50/0.25 | 10.8 | 267 |
| A4AO-C012 | 12 | 2.5 | 50/0.25 | 14.6 | 432 |
| | | | | | |
| A4A0A-C004 | 4 | 4 | 56/0.30 | 11.1 | 236 |
| A4A0A-C005 | 5 | 4 | 56/0.30 | 12.1 | 288 |
| | | | | | |
| A4A0B-C004 | 4 | 6 | 84/0.30 | 12.8 | 339 |
| A4A0B-C005 | 5 | 6 | 84/0.30 | 14.2 | 416 |
| | | | | | |
| A4A0C-C004 | 4 | 10 | 80/0.40 | 16.1 | 502 |
| A4A0C-C005 | 5 | 10 | 80/0.40 | 17.6 | 625 |

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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 |
| A4A0D-C004 | 4 | 16 | 126/0.40 | 19.2 | 771 |
| A4A0D-C005 | 5 | 16 | 126/0.40 | 21.2 | 980 |
| A4A0E-C004 | 4 | 25 | 196/0.40 | 20.2 | 1420 |
| A4A0E-C005 | 5 | 25 | 196/0.40 | 35.7 | 3490 |
| A4A0F-C004 | 4 | 35 | 276/0.40 | 39.1 | 4100 |
| A4A0F-C005 | 5 | 35 | 276/0.40 | 42.7 | 4950 |

Add suffix -KL to part number for cables up to three core having coloured cores or -HKL for four and five core cables as follows:
e.g. A4AN-C003-KL or A4AN-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 end of section.

For Low Smoke Zero Halogen versions up to and including five core refer to page 3:18.