



Tough flexible cable designed for connecting, measuring, checking and control applications where exposed to cold temperatures, harsh mechanical strain or dragged over sharp/rough surfaces. Can be installed indoors or outdoors, including dry, damp or wet areas. Not suitable for direct burial applications.

This cable increases fire safety due to the virtual elimination of halogen acid gas fumes if burnt.

**Construction**

- stranded plain copper conductors
- rubber compound core insulation
- cores twisted together
- halogen free orange UV resistant polyurethane (PUR) sheath

| <b><u>Technical</u></b> |  |
|-------------------------|--|
| references:             | up to 1.0mm <sup>2</sup> = H05BQ-F<br>1.5mm <sup>2</sup> and above = H07BQ-F   |
| conductor makeup:       | stranded according to class 5<br>(VDE 0295 / IEC 60228 / BS EN 60228:2005)   |
| bend radius:            | 6 x overall diameter (O/D) fixed, 12.5 x O/D flexing   |
| voltage rating:         | H05BQ-F = 300/500V operating, 2000V test<br>H07BQ-F = 450/750V operating, 2500V test   |
| current rating:         | see YY, SY & CY derivative chart   |
| temperature range:      | -40°C to +90°C flexible, -50°C to +90°C static   |
| standards:              | construction generally to HD 22.10.S1<br>flame retardant according to IEC 60332-1<br>halogen acid gas emission according to IEC 60754-1 and IEC 60754-2<br>sheath properties (oil resistance etc.) to DIN VDE 0282 part 10 |
| core identification:    | 2 core = coloured according to VDE 0293 without earth (green/yellow)<br>3-5 cores = coloured to VDE 0293 with earth (included in core count)<br>7+ cores = numbered black cores with earth (included in core count)        |

| Number of Cores | Conductor Area (mm <sup>2</sup> ) | Overall Diameter (mm) | Overall Weight (kg/km) | Number of Cores | Conductor Area (mm <sup>2</sup> ) | Overall Diameter (mm) | Overall Weight (kg/km) |
|-----------------|-----------------------------------|-----------------------|------------------------|-----------------|-----------------------------------|-----------------------|------------------------|
| 2               | 0.75                              | 6.4                   | 52                     | 2               | 1.0                               | 7.1                   | 59                     |
| 3               | 0.75                              | 7.1                   | 63                     | 3               | 1.0                               | 7.5                   | 71                     |
| 4               | 0.75                              | 7.6                   | 80                     | 4               | 1.0                               | 8.2                   | 89                     |
| 5               | 0.75                              | 8.5                   | 96                     | 5               | 1.0                               | 9.1                   | 112                    |

| Number of Cores | Conductor Area (mm <sup>2</sup> ) | Overall Diameter (mm) | Overall Weight (kg/km) | Number of Cores | Conductor Area (mm <sup>2</sup> ) | Overall Diameter (mm) | Overall Weight (kg/km) |
|-----------------|-----------------------------------|-----------------------|------------------------|-----------------|-----------------------------------|-----------------------|------------------------|
| 2               | 1.5                               | 8.7                   | 92                     | 4               | 10.0                              | 21.2                  | 738                    |
| 3               | 1.5                               | 9.2                   | 109                    | 5               | 10.0                              | 23.1                  | 968                    |
| 4               | 1.5                               | 10.3                  | 145                    |                 |                                   |                       |                        |
| 5               | 1.5                               | 11.2                  | 169                    | 2               | 16.0                              | 20.3                  | 600                    |
| 7               | 1.5                               | 14.4                  | 230                    | 3               | 16.0                              | 22.1                  | 758                    |
| 12              | 1.5                               | 19.0                  | 398                    | 4               | 16.0                              | 24.2                  | 1187                   |
|                 |                                   |                       |                        | 5               | 16.0                              | 26.8                  | 1475                   |
| 2               | 2.5                               | 10.3                  | 121                    |                 |                                   |                       |                        |
| 3               | 2.5                               | 11.1                  | 164                    | 4               | 25.0                              | 29.3                  | 1550                   |
| 4               | 2.5                               | 12.2                  | 207                    | 5               | 25.0                              | 32.0                  | 1920                   |
| 5               | 2.5                               | 13.6                  | 262                    |                 |                                   |                       |                        |
|                 |                                   |                       |                        | 4               | 35.0                              | 32.2                  | 2120                   |
| 2               | 4.0                               | 12.1                  | 194                    | 5               | 35.0                              | 36.5                  | 2600                   |
| 3               | 4.0                               | 12.9                  | 224                    |                 |                                   |                       |                        |
| 4               | 4.0                               | 14.4                  | 327                    | 4               | 50.0                              | 38.0                  | 2920                   |
| 5               | 4.0                               | 16.0                  | 415                    | 5               | 50.0                              | 43.0                  | 3700                   |
|                 |                                   |                       |                        |                 |                                   |                       |                        |
| 2               | 6.0                               | 13.4                  | 311                    | 4               | 70.0                              | 43.2                  | 3900                   |
| 3               | 6.0                               | 14.5                  | 350                    | 5               | 70.0                              | 49.0                  | 5020                   |
| 4               | 6.0                               | 16.1                  | 496                    |                 |                                   |                       |                        |
| 5               | 6.0                               | 18.3                  | 586                    | 4               | 95.0                              | 49.8                  | 5150                   |
|                 |                                   |                       |                        | 5               | 95.0                              | 56.0                  | 6520                   |
| 2               | 10.0                              | 17.7                  | 428                    |                 |                                   |                       |                        |
| 3               | 10.0                              | 19.1                  | 640                    |                 |                                   |                       |                        |

**PUR Properties:** Tough material with excellent abrasion and tear resistance. Good resistance to water and mineral oils. Poor resistance to acids, alkalis and organic solvents.

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