

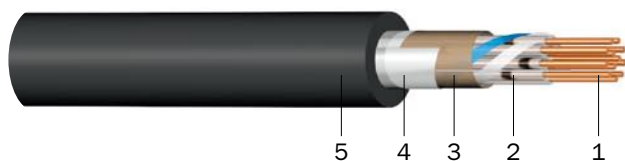
# A-2YF(L)2Y...St III Bd

**Underground cable, screened, longitudinally water-proof**

**Standard: VDE 0816**

### Usage:

These cables are suitable for external telecommunications networks which are installed under ground, in cable ducts or conduit.



### Construction:

- 1 Copper conductor, round solid (RE)
- 2 Core insulation (PE), cores star quaded and quads stranded in groups, core stranding petrol jelly filled
- 3 Inner covering (plastic tape)
- 4 Screen (copolymer laminated aluminium tape which is welded to the PE sheath)
- 5 Sheath (PE black, UV-resistant)



### Rated voltage:

225 V (peak value)  
150 V (peak value) for  
Ø 0.4 mm



### Test voltage:

core/core 500 Veff  
(Ø 0.6; 0.8)  
core/screen 2000 Veff



### Temperature range:

laying temperature: min. -20 °C  
operating temperature: -40 °C to +70 °C



### Bending radius (min.):

10 x Ø of cable



### Core identification:

coloured (VDE 0816)



### Test certificate:

VDE Germany

### Electrical parameters

|   |            | 0.4   | 0.6   | 0.8   |
|---|------------|-------|-------|-------|
| Conductor diameter                              | (mm)       | 0.4   | 0.6   | 0.8   |
| Loop resistance, max.                           | (Ω/km)     | 300   | 130   | 73.2  |
| Insulation resistance, min.                     | (MΩ.km)    | 1,500 | 1,500 | 1,500 |
| Mutual capacitance, (100 % of values)           | (nF/km)    | 50    | 52    | 55    |
| Mutual capacitance, (95 % of values)            | (nF/km)    | 48    | 50    | 53    |
| Mutual capacitance, (80 % of values)            | (nF/km)    | –     | 48    | 50    |
| Capacitance unbalance $K_1$ , (100 % of values) | (pF/300 m) | 800   | 800   | 800   |
| Capacitance unbalance $K_1$ , (98 % of values)  | (pF/300 m) | 400   | 400   | 400   |
| Capacitance unbalance $K_9$ , (100 % of values) | (pF/300 m) | 300   | 300   | 300   |
| Capacitance unbalance $K_9$ , (98 % of values)  | (pF/300 m) | 100   | 100   | 100   |

| Number of pairs x nominal diameter (mm) | Outer diameter (mm) ca. | Metal weight (kg/km) | Total weight (kg/km) ca. | Standard lengths/ packing (m) |
|---|-------------------------|----------------------|--------------------------|-------------------------------|
| <b>A-2Y(L)2Y...Bd</b>                   |                         |                      |                          |                               |
| 10 x 2 x 0.4                            | 11.5                    | 26                   | 130                      | 2000 T                        |
| 20 x 2 x 0.4                            | 14.2                    | 51                   | 203                      | 2000 T                        |
| 30 x 2 x 0.4                            | 14.5                    | 77                   | 232                      | 2000 T                        |
| 40 x 2 x 0.4                            | 16.3                    | 103                  | 297                      | 2000 T                        |
| 50 x 2 x 0.4                            | 17.3                    | 128                  | 350                      | 2000 T                        |
| 70 x 2 x 0.4                            | 20.5                    | 180                  | 474                      | 1000 T                        |

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| Number of pairs x nominal diameter (mm) | Outer diameter (mm) ca. | Metal weight (kg/km) | Total weight (kg/km) ca. | Standard lengths/ packing (m) |
|---|-------------------------|----------------------|--------------------------|-------------------------------|
| <b>A-2Y(L)2Y...Bd</b>                   |                         |                      |                          |                               |
| 100 x 2 x 0.4                           | 22.1                    | 257                  | 596                      | 1000 T                        |
| 150 x 2 x 0.4                           | 25.9                    | 397                  | 850                      | 1000 T                        |
| 200 x 2 x 0.4                           | 30.9                    | 533                  | 1,166                    | 1000 T                        |
| 2 x 2 x 0.6                             | 8.0                     | 13                   | 78                       | 2000 T                        |
| 6 x 2 x 0.6                             | 12.0                    | 35                   | 140                      | 2000 T                        |
| 10 x 2 x 0.6                            | 13.5                    | 58                   | 190                      | 2000 T                        |
| 20 x 2 x 0.6                            | 16.5                    | 116                  | 310                      | 2000 T                        |
| 30 x 2 x 0.6                            | 19.5                    | 172                  | 430                      | 2000 T                        |
| 40 x 2 x 0.6                            | 21.5                    | 229                  | 545                      | 1000 T                        |
| 50 x 2 x 0.6                            | 23.5                    | 286                  | 660                      | 1000 T                        |
| 70 x 2 x 0.6                            | 27.0                    | 402                  | 895                      | 1000 T                        |
| 100 x 2 x 0.6                           | 31.5                    | 568                  | 1,225                    | 1000 T                        |
| 150 x 2 x 0.6                           | 36.3                    | 850                  | 1,727                    | 1000 T                        |
| 200 x 2 x 0.6                           | 40.3                    | 1130                 | 2,205                    | 1000 T                        |
| 2 x 2 x 0.8                             | 9.0                     | 21                   | 102                      | 2000 T                        |
| 6 x 2 x 0.8                             | 13.5                    | 62                   | 230                      | 2000 T                        |
| 10 x 2 x 0.8                            | 15.5                    | 102                  | 330                      | 2000 T                        |
| 20 x 2 x 0.8                            | 22.0                    | 204                  | 560                      | 1000 T                        |
| 30 x 2x 0.8                             | 25.0                    | 304                  | 740                      | 1000 T                        |
| 40 x 2 x 0.8                            | 27.0                    | 405                  | 900                      | 1000 T                        |
| 50 x 2 x 0.8                            | 30.0                    | 506                  | 1,100                    | 1000 T                        |
| 70 x 2 x 0.8                            | 33.0                    | 710                  | 1,420                    | 1000 T                        |
| 100 x 2 x 0.8                           | 41.0                    | 1008                 | 2,000                    | 1000 T                        |
| 150 x 2 x 0.8                           | 52.6                    | 1510                 | 3,279                    | 500 T                         |
| 200 x 2 x 0.8                           | 60.4                    | 2010                 | 4,357                    | 500 T                         |

Subject to technical changes.