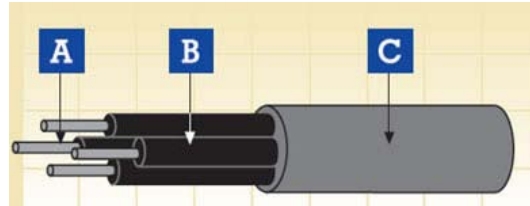




# Chinese Standard Rolling Stock Cables

## Low Smoke Halogen Free Flame Retardant Multicore Cables WDZ-DCK-100, WDZ-DCK-125 250V, 750V



A. Conductor B. Insulation C. Sheath

### Application

- Used as power and control cable for protected installations inside and outside of rail and transport vehicles, where handling and installation cost are an important factor.
- Used in control, auxillary and main circuit wiring such as cable harnesses, switchboards and control panels, driver desks etc.

### Construction

- Conductor
  - Tinned copper wires
- Separator (if available)
- Insulation
  - Low smoke halogen free flame retardant compound
- Filler
- Separator
- Sheath
  - Low smoke halogen free flame retardant compound

### Electrical & Mechanical Properties

- Nominal Voltage: 250V, 750V
- Long-term Working Temperature: 100°C (WDZ-DCK-100); 125°C (WDZ-DCK-125)
- Lowest Operation Temperature: -40°C
- Minimum Bending Radius: 2 x Overall Diameter (OD≤10mm); 4 x Overall Diameter (10mm≤OD≤20mm); 6 x Overall Diameter (OD≥20mm)

### Fire Performance

- Flame Retardant: GB/T 18380.1-2001; GB/T 18380.3-2001 C
- Low Corrosivity (Acidity & Conductivity): GB/T17650.1-1998; GB/T17650.2-1998
- Halogen Free: GB/T17650.1-1998; GB/T17650.2-1998
- Low Smoke: GB/T17651.1-1998; GB/T17651.2-1998

### WDZ-DCK-100, WDZ-DCK-125 250V

| Number of conductor×Nominal Cross-Sectional Area | Conductor Construction | Overall Diameter | Weight | Maximum Conductor Resistance 20°C |
|--|------------------------|------------------|--------|-----------------------------------|
| mm <sup>2</sup>                                  | No/mm                  | mm               | kg/km  | Ω/km                              |
| 2×0.5  | 16/0.20                | 6.6              | 62     | 40.1                              |
| 3×0.5  | 16/0.20                | 7.3              | 70     | 40.1                              |



# Chinese Standard Rolling Stock Cables

| Number of conductor×Nominal Cross-Sectional Area | Conductor Construction | Overall Diameter | Weight | Maximum Conductor Resistance 20°C |
|--|------------------------|------------------|--------|-----------------------------------|
| mm <sup>2</sup>                                  | No/mm                  | mm               | kg/km  | Ω/km                              |
| 5×0.5  | 16/0.20                | 8.4              | 96     | 40.1                              |
| 7×0.5  | 16/0.20                | 9.0              | 116    | 40.1                              |
| 11×0.5   | 16/0.20                | 11.2             | 167    | 40.1                              |
| 16×0.5   | 16/0.20                | 12.2             | 215    | 40.1                              |
| 19×0.5   | 16/0.20                | 13.2             | 256    | 40.1                              |
| 20×0.5   | 16/0.20                | 13.8             | 272    | 40.1                              |
| 24×0.5   | 16/0.20                | 15.1             | 313    | 40.1                              |
| 33×0.5   | 16/0.20                | 16.5             | 398    | 40.1                              |
| 37×0.5   | 16/0.20                | 17.0             | 436    | 40.1                              |
| 43×0.5   | 16/0.20                | 19.4             | 487    | 40.1                              |
| 48×0.5   | 16/0.20                | 19.7             | 564    | 40.1                              |
| 2×0.75   | 24/0.20                | 7.1              | 71     | 26.7                              |
| 3×0.75   | 24/0.20                | 7.9              | 83     | 26.7                              |
| 5×0.75   | 24/0.20                | 9.0              | 113    | 26.7                              |
| 7×0.75   | 24/0.20                | 9.7              | 141    | 26.7                              |
| 11×0.75  | 24/0.20                | 12.2             | 206    | 26.7                              |
| 16×0.75  | 24/0.20                | 13.8             | 282    | 26.7                              |
| 19×0.75  | 24/0.20                | 14.4             | 320    | 26.7                              |
| 20×0.75  | 24/0.20                | 15.0             | 342    | 26.7                              |
| 24×0.75  | 24/0.20                | 16.6             | 394    | 26.7                              |
| 33×0.75  | 24/0.20                | 18.1             | 507    | 26.7                              |
| 37×0.75  | 24/0.20                | 19.1             | 574    | 26.7                              |
| 43×0.75  | 24/0.20                | 21.3             | 661    | 26.7                              |
| 48×0.75  | 24/0.20                | 21.6             | 720    | 26.7                              |
| 2×1.0  | 32/0.20                | 7.5              | 80     | 20.0                              |
| 3×1.0  | 32/0.20                | 8.2              | 94     | 20.0                              |
| 5×1.0  | 32/0.20                | 9.5              | 133    | 20.0                              |
| 7×1.0  | 32/0.20                | 10.2             | 164    | 20.0                              |
| 11×1.0   | 32/0.20                | 13.3             | 256    | 20.0                              |
| 16×1.0   | 32/0.20                | 14.6             | 333    | 20.0                              |
| 19×1.0   | 32/0.20                | 15.3             | 381    | 20.0                              |
| 20×1.0   | 32/0.20                | 16.0             | 405    | 20.0                              |
| 24×1.0   | 32/0.20                | 17.6             | 470    | 20.0                              |
| 33×1.0   | 32/0.20                | 19.7             | 629    | 20.0                              |
| 37×1.0   | 32/0.20                | 20.4             | 690    | 20.0                              |
| 43×1.0   | 32/0.20                | 22.7             | 795    | 20.0                              |
| 48×1.0   | 32/0.20                | 23.1             | 868    | 20.0                              |
| 2×1.5  | 48/0.20                | 8.1              | 97     | 13.7                              |
| 3×1.5  | 48/0.20                | 8.9              | 115    | 13.7                              |
| 5×1.5  | 48/0.20                | 10.3             | 167    | 13.7                              |
| 7×1.5  | 48/0.20                | 11.1             | 210    | 13.7                              |
| 11×1.5   | 48/0.20                | 14.5             | 328    | 13.7                              |
| 16×1.5   | 48/0.20                | 16.0             | 436    | 13.7                              |
| 19×1.5   | 48/0.20                | 16.8             | 499    | 13.7                              |
| 20×1.5   | 48/0.20                | 17.5             | 531    | 13.7                              |
| 24×1.5   | 48/0.20                | 19.8             | 638    | 13.7                              |
| 33×1.5   | 48/0.20                | 21.6             | 831    | 13.7                              |
| 37×1.5   | 48/0.20                | 22.4             | 913    | 13.7                              |
| 43×1.5   | 48/0.20                | 25.4             | 1081   | 13.7                              |
| 48×1.5   | 48/0.20                | 25.8             | 1182   | 13.7                              |
| 2×2.5  | 77/0.20                | 9.0              | 126    | 8.21                              |
| 3×2.5  | 77/0.20                | 9.9              | 159    | 8.21                              |
| 5×2.5  | 77/0.20                | 11.6             | 228    | 8.21                              |
| 7×2.5  | 77/0.20                | 12.5             | 291    | 8.21                              |
| 11×2.5   | 77/0.20                | 16.5             | 457    | 8.21                              |
| 16×2.5   | 77/0.20                | 18.2             | 616    | 8.21                              |
| 19×2.5   | 77/0.20                | 19.5             | 709    | 8.21                              |
| 20×2.5   | 77/0.20                | 20.4             | 775    | 8.21                              |
| 24×2.5   | 77/0.20                | 22.6             | 905    | 8.21                              |
| 33×2.5   | 77/0.20                | 25.2             | 1217   | 8.21                              |
| 37×2.5   | 77/0.20                | 26.1             | 1342   | 8.21                              |



# Chinese Standard Rolling Stock Cables

| Number of conductor×Nominal Cross-Sectional Area | Conductor Construction | Overall Diameter | Weight | Maximum Conductor Resistance 20°C |
|--|------------------------|------------------|--------|-----------------------------------|
| mm <sup>2</sup>                                  | No/mm                  | mm               | kg/km  | Ω/km                              |
| 43×2.5   | 77/0.20                | 29.2             | 1551   | 8.21                              |
| 48×2.5   | 77/0.20                | 29.7             | 1702   | 8.21                              |
| 2×4.0  | 77/0.26                | 10.6             | 179    | 5.09                              |
| 3×4.0  | 77/0.26                | 11.6             | 233    | 5.09                              |
| 5×4.0  | 77/0.26                | 14.1             | 356    | 5.09                              |
| 7×4.0  | 77/0.26                | 15.3             | 459    | 5.09                              |
| 11×4.0   | 77/0.26                | 20.2             | 721    | 5.09                              |
| 16×4.0   | 77/0.26                | 22.3             | 979    | 5.09                              |
| 19×4.0   | 77/0.26                | 23.5             | 1132   | 5.09                              |
| 20×4.0   | 77/0.26                | 25.1             | 1231   | 5.09                              |
| 24×4.0   | 77/0.26                | 27.8             | 1441   | 5.09                              |
| 33×4.0   | 77/0.26                | 30.5             | 1910   | 5.09                              |
| 37×4.0   | 77/0.26                | 31.7             | 2111   | 5.09                              |
| 43×4.0   | 77/0.26                | 36.6             | 2536   | 5.09                              |
| 48×4.0   | 77/0.26                | 37.2             | 2786   | 5.09                              |

## WDZ-DCK-100, WDZ-DCK-125 750V

| Number of conductor×Nominal Cross-Sectional Area | Conductor Construction | Overall Diameter | Weight | Maximum Conductor Resistance 20°C |
|--|------------------------|------------------|--------|-----------------------------------|
| mm <sup>2</sup>                                  | No/mm                  | mm               | kg/km  | Ω/km                              |
| 2×0.5  | 16/0.20                | 7.8              | 78     | 40.1                              |
| 3×0.5  | 16/0.20                | 8.6              | 89     | 40.1                              |
| 5×0.5  | 16/0.20                | 10.0             | 124    | 40.1                              |
| 7×0.5  | 16/0.20                | 10.8             | 151    | 40.1                              |
| 11×0.5   | 16/0.20                | 14.1             | 239    | 40.1                              |
| 16×0.5   | 16/0.20                | 15.4             | 302    | 40.1                              |
| 19×0.5   | 16/0.20                | 16.2             | 340    | 40.1                              |
| 20×0.5   | 16/0.20                | 17.0             | 364    | 40.1                              |
| 24×0.5   | 16/0.20                | 19.1             | 437    | 40.1                              |
| 33×0.5   | 16/0.20                | 20.9             | 557    | 40.1                              |
| 37×0.5   | 16/0.20                | 21.6             | 607    | 40.1                              |
| 43×0.5   | 16/0.20                | 24.6             | 723    | 40.1                              |
| 48×0.5   | 16/0.20                | 24.9             | 783    | 40.1                              |
| 2×0.75   | 24/0.20                | 8.3              | 89     | 26.7                              |
| 3×0.75   | 24/0.20                | 9.1              | 103    | 26.7                              |
| 5×0.75   | 24/0.20                | 10.7             | 145    | 26.7                              |
| 7×0.75   | 24/0.20                | 11.5             | 178    | 26.7                              |
| 11×0.75  | 24/0.20                | 15.1             | 280    | 26.7                              |
| 16×0.75  | 24/0.20                | 16.6             | 362    | 26.7                              |
| 19×0.75  | 24/0.20                | 17.4             | 410    | 26.7                              |
| 20×0.75  | 24/0.20                | 18.6             | 457    | 26.7                              |
| 24×0.75  | 24/0.20                | 20.6             | 526    | 26.7                              |
| 33×0.75  | 24/0.20                | 22.5             | 674    | 26.7                              |
| 37×0.75  | 24/0.20                | 23.3             | 740    | 26.7                              |
| 43×0.75  | 24/0.20                | 26.5             | 878    | 26.7                              |
| 48×0.75  | 24/0.20                | 26.9             | 955    | 26.7                              |
| 2×1.0  | 32/0.20                | 8.7              | 98     | 20.0                              |
| 3×1.0  | 32/0.20                | 9.5              | 115    | 20.0                              |
| 5×1.0  | 32/0.20                | 11.1             | 163    | 20.0                              |
| 7×1.0  | 32/0.20                | 12.0             | 203    | 20.0                              |
| 11×1.0   | 32/0.20                | 15.8             | 319    | 20.0                              |
| 16×1.0   | 32/0.20                | 17.4             | 415    | 20.0                              |
| 19×1.0   | 32/0.20                | 18.7             | 494    | 20.0                              |
| 20×1.0   | 32/0.20                | 19.6             | 527    | 20.0                              |
| 24×1.0   | 32/0.20                | 21.6             | 609    | 20.0                              |
| 33×1.0   | 32/0.20                | 24.1             | 812    | 20.0                              |
| 37×1.0   | 32/0.20                | 25.0             | 889    | 20.0                              |
| 43×1.0   | 32/0.20                | 27.9             | 1024   | 20.0                              |
| 48×1.0   | 32/0.20                | 28.4             | 1116   | 20.0                              |



## Chinese Standard Rolling Stock Cables

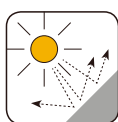
| Number of conductor×Nominal Cross-Sectional Area | Conductor Construction | Overall Diameter | Weight | Maximum Conductor Resistance 20°C |
|--|------------------------|------------------|--------|-----------------------------------|
| mm <sup>2</sup>                                  | No/mm                  | mm               | kg/km  | Ω/km                              |
| 2×1.5  | 48/0.20                | 9.3              | 116    | 13.7                              |
| 3×1.5  | 48/0.20                | 10.2             | 143    | 13.7                              |
| 5×1.5  | 48/0.20                | 11.9             | 200    | 13.7                              |
| 7×1.5  | 48/0.20                | 13.3             | 265    | 13.7                              |
| 11×1.5   | 48/0.20                | 17.0             | 396    | 13.7                              |
| 16×1.5   | 48/0.20                | 19.2             | 544    | 13.7                              |
| 19×1.5   | 48/0.20                | 20.2             | 623    | 13.7                              |
| 20×1.5   | 48/0.20                | 21.1             | 644    | 13.7                              |
| 24×1.5   | 48/0.20                | 23.4             | 769    | 13.7                              |
| 33×1.5   | 48/0.20                | 26.0             | 1030   | 13.7                              |
| 37×1.5   | 48/0.20                | 27.0             | 1131   | 13.7                              |
| 43×1.5   | 48/0.20                | 30.2             | 1305   | 13.7                              |
| 48×1.5   | 48/0.20                | 30.7             | 1427   | 13.7                              |
| 2×2.5  | 77/0.20                | 10.2             | 147    | 8.21                              |
| 3×2.5  | 77/0.20                | 11.2             | 186    | 8.21                              |
| 5×2.5  | 77/0.20                | 13.6             | 278    | 8.21                              |
| 7×2.5  | 77/0.20                | 14.7             | 352    | 8.21                              |
| 11×2.5   | 77/0.20                | 19.4             | 552    | 8.21                              |
| 16×2.5   | 77/0.20                | 21.4             | 736    | 8.21                              |
| 19×2.5   | 77/0.20                | 22.5             | 847    | 8.21                              |
| 20×2.5   | 77/0.20                | 24.0             | 928    | 8.21                              |
| 24×2.5   | 77/0.20                | 26.6             | 1080   | 8.21                              |
| 33×2.5   | 77/0.20                | 29.2             | 1417   | 8.21                              |
| 37×2.5   | 77/0.20                | 30.3             | 1561   | 8.21                              |
| 43×2.5   | 77/0.20                | 35.0             | 1891   | 8.21                              |
| 48×2.5   | 77/0.20                | 35.6             | 2069   | 8.21                              |
| 2×4.0  | 77/0.26                | 11.4             | 193    | 5.09                              |
| 3×4.0  | 77/0.26                | 12.5             | 251    | 5.09                              |
| 5×4.0  | 77/0.26                | 15.2             | 384    | 5.09                              |
| 7×4.0  | 77/0.26                | 16.5             | 496    | 5.09                              |
| 11×4.0   | 77/0.26                | 21.9             | 784    | 5.09                              |
| 16×4.0   | 77/0.26                | 24.6             | 1083   | 5.09                              |
| 19×4.0   | 77/0.26                | 25.9             | 1250   | 5.09                              |
| 20×4.0   | 77/0.26                | 27.2             | 1329   | 5.09                              |
| 24×4.0   | 77/0.26                | 30.2             | 1557   | 5.09                              |
| 33×4.0   | 77/0.26                | 33.2             | 2063   | 5.09                              |
| 37×4.0   | 77/0.26                | 35.5             | 2370   | 5.09                              |
| 43×4.0   | 77/0.26                | 39.8             | 2741   | 5.09                              |
| 48×4.0   | 77/0.26                | 40.5             | 3011   | 5.09                              |
| 2×10   | 332/0.20               | 18.4             | 430    | 1.95                              |



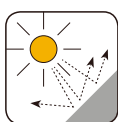
Corona Resistant



Highly Flexible



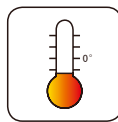
UV Resistant



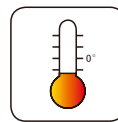
Ozone Resistant



Abrasion Retardant



Cold-resistant



Resistance To Soldering Heat



Acid&Alkaline Resistant



IRM 903 Fuel Oil Resistant



IRM 902 Mineral Oil Resistant



Fire Retardant NF C32-070-2.2(C2) IEC60332-3-24/EN50266-2-4



Flame Retardant NF C32-070-2.1(C1) IEC60332-1-2/EN50265-1



Low Toxicity NF X70-100/NF F63 808 TM1-04/BS 6853



Low Corrosivity IEC60754-2/EN50267-2-2/3 NF C32-074/VDE 0472-813



Low Smoke Emission IEC 61034-2 / EN 50268-2 NF C32-073/VDE 0472-816



Zero Halogen IEC 60754-1/EN 50267-2-1 NF C32-074/VDE 0472-815