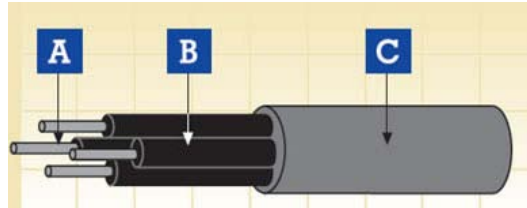




# Chinese Standard Rolling Stock Cables

## Super-thin Wall Multicore Cables DT-RFE 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, auxiliary and main circuit wiring such as cable harnesses, switchboards and control panels, driver desks etc.

### Construction

Conductor

Tinned copper wires

Insulation

Electron beam crosslinkable LSZH compound

Sheath

TPU plastic sheath

### Electrical & Mechanical Properties

|                                |  |
|--------------------------------|--|
| Nominal Voltage                | 750V   |
| Short Circuit Temperature (5s) | 250°C  |
| Operating Temperature          | -60°C/+125°C   |
| Minimum Bending Radius         | 3 x Overall Diameter (OD≤20mm)<br>5 x Overall Diameter (OD≥20mm) |

### Fire Performance

|  |                                    |
|--|------------------------------------|
| Flame Retardant                          | GB 12666-90 DZ-1                   |
| 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 |

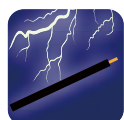
### DT-RFE 750V

| Number of conductor×Nominal Cross-Sectional Area<br>mm <sup>2</sup> | Conductor Construction<br>No/mm | Maximum Overall Diameter<br>mm | Weight<br>kg/km | Maximum Conductor Resistance<br>20°C<br>Ω/km |
|---|---------------------------------|--------------------------------|-----------------|--|
| 2×0.5   | 19/0.18                         | 3.84                           | 34.0            | 40.1   |
| 3×0.5   | 19/0.18                         | 3.97                           | 42.5            | 40.1   |
| 4×0.5   | 19/0.18                         | 4.60                           | 53.5            | 40.1   |
| 5×0.5   | 19/0.18                         | 4.82                           | 68.1            | 40.1   |
| 6×0.5   | 19/0.18                         | 5.06                           | 70.5            | 40.1   |
| 7×0.5   | 19/0.18                         | 5.40                           | 79.0            | 40.1   |
| 8×0.5   | 19/0.18                         | 5.96                           | 90.5            | 40.1   |
| 2×0.75  | 19/0.23                         | 4.14                           | 39.0            | 26.7   |
| 3×0.75  | 19/0.23                         | 4.71                           | 53.5            | 26.7   |
| 4×0.75  | 19/0.23                         | 5.16                           | 66.0            | 26.7   |



## Chinese Standard Rolling Stock Cables

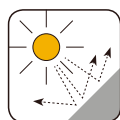
| Number of conductor×Nominal Cross-Sectional Area<br>mm <sup>2</sup> | Conductor Construction<br>No/mm | Maximum Overall Diameter<br>mm | Weight<br>kg/km | Maximum Conductor Resistance<br>20°C<br>Ω/km |
|---|---------------------------------|--------------------------------|-----------------|--|
| 5×0.75  | 19/0.23                         | 5.56                           | 77.8            | 26.7   |
| 6×0.75  | 19/0.23                         | 5.76                           | 92.8            | 26.7   |
| 7×0.75  | 19/0.23                         | 6.15                           | 104.0           | 26.7   |
| 8×0.75  | 19/0.23                         | 6.76                           | 117.0           | 26.7   |
| 2×1.0   | 19/0.26                         | 4.38                           | 45.0            | 20.0   |
| 3×1.0   | 19/0.26                         | 5.00                           | 63.0            | 20.0   |
| 4×1.0   | 19/0.26                         | 5.51                           | 77.5            | 20.0   |
| 5×1.0   | 19/0.26                         | 5.96                           | 93.0            | 20.0   |
| 6×1.0   | 19/0.26                         | 6.26                           | 111.5           | 20.0   |
| 7×1.0   | 19/0.26                         | 6.60                           | 126.0           | 20.0   |
| 8×1.0   | 19/0.26                         | 7.36                           | 143.0           | 20.0   |
| 2×1.5   | 19/0.32                         | 5.04                           | 52.5            | 13.7   |
| 3×1.5   | 19/0.32                         | 5.88                           | 82.5            | 13.7   |
| 4×1.5   | 19/0.32                         | 6.14                           | 105.5           | 13.7   |
| 5×1.5   | 19/0.32                         | 6.96                           | 120.0           | 13.7   |
| 6×1.5   | 19/0.32                         | 7.56                           | 144.75          | 13.7   |
| 7×1.5   | 19/0.32                         | 7.80                           | 164.5           | 13.7   |
| 8×1.5   | 19/0.32                         | 8.46                           | 185.0           | 13.7   |
| 2×2.0   | 19/0.37                         | 6.10                           | 63.7            | 10.0   |
| 3×2.0   | 19/0.37                         | 6.41                           | 94.7            | 10.0   |
| 4×2.0   | 19/0.37                         | 7.14                           | 122.5           | 10.0   |
| 5×2.0   | 19/0.37                         | 8.14                           | 152.2           | 10.0   |
| 6×2.0   | 19/0.37                         | 8.65                           | 181.9           | 10.0   |
| 7×2.0   | 19/0.37                         | 8.86                           | 210.7           | 10.0   |
| 8×2.0   | 19/0.37                         | 9.56                           | 240.4           | 10.0   |
| 2×2.5   | 19/0.41                         | 6.60                           | 77.5            | 8.21   |
| 3×2.5   | 19/0.41                         | 7.16                           | 118.0           | 8.21   |
| 4×2.5   | 19/0.41                         | 8.06                           | 142.5           | 8.21   |
| 5×2.5   | 19/0.41                         | 9.06                           | 169.0           | 8.21   |
| 6×2.5   | 19/0.41                         | 9.77                           | 213.2           | 8.21   |
| 7×2.5   | 19/0.41                         | 10.26                          | 240.0           | 8.21   |
| 8×2.5   | 19/0.41                         | 11.26                          | 280.0           | 8.21   |
| 2×4.0   | 19/0.52                         | 7.70                           | 111.0           | 5.00   |
| 3×4.0   | 19/0.52                         | 8.21                           | 160.65          | 5.00   |



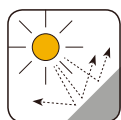
Corona Resistant



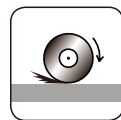
Highly Flexible



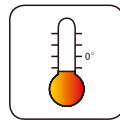
UV Resistant



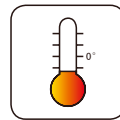
Ozone Resistant



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/EN50265-2-1



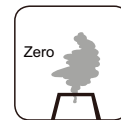
Low Toxicity  
NF X70-100/NF F63 808  
TM1-04/BS 6853



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