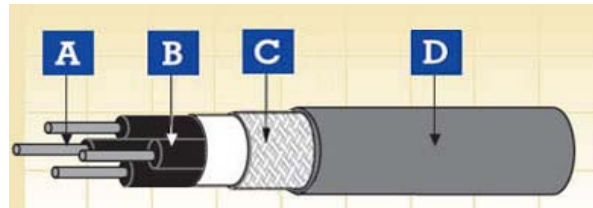




# Chinese Standard Rolling Stock Cables

## Low Smoke Halogen Free Flame Retardant Thin Wall Screened Multicore Cables WDW-DCKP/B-100, WDW-DCKP/B-125 250V, 750V



A. Conductor B. Insulation C. Screen D. 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
  - Separator (if available)
- Insulation
  - Low smoke halogen free flame retardant compound
- Filler
- Separator
- Screen
  - Tinned copper braid
- Sheath
  - Low smoke halogen free flame retardant compound

### Electrical & Mechanical Properties

Nominal Voltage	250V, 750V
Long-term Working Temperature	100°C (WDZ-DCKP/B-100); 125°C (WDZ-DCKP/B-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



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### WDZ-DCKP/B-100, WDZ-DCKP/B-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	5.8	67	40.1
3×0.5	16/0.20	6.5	76	40.1
5×0.5	16/0.20	7.3	100	40.1
7×0.5	16/0.20	7.8	118	40.1
11×0.5	16/0.20	9.5	166	40.1
16×0.5	16/0.20	10.3	209	40.1
19×0.5	16/0.20	10.8	232	40.1
20×0.5	16/0.20	11.3	246	40.1
24×0.5	16/0.20	12.3	283	40.1
33×0.5	16/0.20	13.8	369	40.1
37×0.5	16/0.20	14.2	400	40.1
43×0.5	16/0.20	15.8	459	40.1
48×0.5	16/0.20	16.0	494	40.1
2×0.75	24/0.20	6.3	79	26.7
3×0.75	24/0.20	7.0	90	26.7
5×0.75	24/0.20	8.0	120	26.7
7×0.75	24/0.20	8.5	144	26.7
11×0.75	24/0.20	10.5	207	26.7
16×0.75	24/0.20	11.5	263	26.7
19×0.75	24/0.20	12.0	296	26.7
20×0.75	24/0.20	12.5	314	26.7
24×0.75	24/0.20	14.2	377	26.7
33×0.75	24/0.20	15.4	476	26.7
37×0.75	24/0.20	15.9	519	26.7
43×0.75	24/0.20	17.7	597	26.7
48×0.75	24/0.20	18.0	647	26.7
2×1.0	32/0.20	6.7	89	20.0
3×1.0	32/0.20	7.4	102	20.0
5×1.0	32/0.20	8.4	139	20.0
7×1.0	32/0.20	9.0	169	20.0
11×1.0	32/0.20	11.3	244	20.0
16×1.0	32/0.20	12.3	315	20.0
19×1.0	32/0.20	13.3	370	20.0
20×1.0	32/0.20	13.9	392	20.0
24×1.0	32/0.20	15.2	454	20.0
33×1.0	32/0.20	16.6	579	20.0
37×1.0	32/0.20	17.2	633	20.0
43×1.0	32/0.20	19.7	774	20.0
48×1.0	32/0.20	20.0	838	20.0
2×1.5	48/0.20	7.3	107	13.7
3×1.5	48/0.20	8.0	125	13.7
5×1.5	48/0.20	9.2	175	13.7
7×1.5	48/0.20	9.9	216	13.7
11×1.5	48/0.20	12.5	318	13.7
16×1.5	48/0.20	14.1	430	13.7
19×1.5	48/0.20	14.8	489	13.7
20×1.5	48/0.20	15.4	519	13.7
24×1.5	48/0.20	17.0	603	13.7
33×1.5	48/0.20	19.1	823	13.7
37×1.5	48/0.20	19.8	901	13.7
43×1.5	48/0.20	22.0	1037	13.7
48×1.5	48/0.20	22.4	1128	13.7
2×2.5	77/0.20	8.2	139	8.21
3×2.5	77/0.20	9.0	171	8.21
5×2.5	77/0.20	10.5	240	8.21
7×2.5	77/0.20	11.3	300	8.21
11×2.5	77/0.20	14.8	462	8.21
16×2.5	77/0.20	16.3	612	8.21
19×2.5	77/0.20	17.1	701	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
20×2.5	77/0.20	17.9	744	8.21
24×2.5	77/0.20	20.4	917	8.21
33×2.5	77/0.20	22.3	1187	8.21
37×2.5	77/0.20	23.1	1306	8.21
43×2.5	77/0.20	26.0	1519	8.21
48×2.5	77/0.20	26.4	1658	8.21
2×4.0	77/0.26	9.4	189	5.09
3×4.0	77/0.26	10.3	240	5.09
5×4.0	77/0.26	12.1	344	5.09
7×4.0	77/0.26	13.5	455	5.09
11×4.0	77/0.26	17.3	686	5.09
16×4.0	77/0.26	19.7	967	5.09
19×4.0	77/0.26	20.7	1110	5.09
20×4.0	77/0.26	21.7	1178	5.09
24×4.0	77/0.26	24.2	1398	5.09
33×4.0	77/0.26	26.5	1821	5.09
37×4.0	77/0.26	27.5	2008	5.09
43×4.0	77/0.26	31.0	2366	5.09
48×4.0	77/0.26	31.5	2592	5.09

## WDZ-DCKP/B-100, WDZ-DCKP/B-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	6.0	72	40.1
3×0.5	16/0.20	6.7	80	40.1
5×0.5	16/0.20	7.6	105	40.1
7×0.5	16/0.20	8.1	124	40.1
11×0.5	16/0.20	9.9	175	40.1
16×0.5	16/0.20	10.8	219	40.1
19×0.5	16/0.20	11.3	245	40.1
20×0.5	16/0.20	11.8	260	40.1
24×0.5	16/0.20	13.3	312	40.1
33×0.5	16/0.20	14.5	389	40.1
37×0.5	16/0.20	14.9	422	40.1
43×0.5	16/0.20	16.6	485	40.1
48×0.5	16/0.20	16.8	522	40.1
2×0.75	24/0.20	6.5	83	26.7
3×0.75	24/0.20	7.2	94	26.7
5×0.75	24/0.20	8.2	126	26.7
7×0.75	24/0.20	8.8	151	26.7
11×0.75	24/0.20	10.9	216	26.7
16×0.75	24/0.20	11.9	274	26.7
19×0.75	24/0.20	12.5	310	26.7
20×0.75	24/0.20	13.5	342	26.7
24×0.75	24/0.20	14.8	394	26.7
33×0.75	24/0.20	16.1	499	26.7
37×0.75	24/0.20	16.6	543	26.7
43×0.75	24/0.20	19.1	670	26.7
48×0.75	24/0.20	19.4	722	26.7
2×1.0	32/0.20	6.9	92	20.0
3×1.0	32/0.20	7.6	106	20.0
5×1.0	32/0.20	8.7	145	20.0
7×1.0	32/0.20	9.3	176	20.0
11×1.0	32/0.20	11.7	255	20.0
16×1.0	32/0.20	12.8	328	20.0
19×1.0	32/0.20	13.8	385	20.0
20×1.0	32/0.20	14.4	408	20.0
24×1.0	32/0.20	15.8	472	20.0



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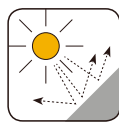
Number of conductor×Nominal Cross-Sectional Area	Conductor Construction	Overall Diameter	Weight	Maximum Conductor Resistance 20°C
mm <sup>2</sup>	No/mm	mm	kg/km	Ω/km
33×1.0	32/0.20	17.3	602	20.0
37×1.0	32/0.20	17.9	675	20.0
43×1.0	32/0.20	20.5	806	20.0
48×1.0	32/0.20	20.8	873	20.0
2×1.5	48/0.20	7.5	111	13.7
3×1.5	48/0.20	8.2	129	13.7
5×1.5	48/0.20	9.5	181	13.7
7×1.5	48/0.20	10.2	224	13.7
11×1.5	48/0.20	13.3	342	13.7
16×1.5	48/0.20	14.6	443	13.7
19×1.5	48/0.20	15.3	505	13.7
20×1.5	48/0.20	15.9	536	13.7
24×1.5	48/0.20	17.6	623	13.7
33×1.5	48/0.20	19.8	851	13.7
37×1.5	48/0.20	20.5	931	13.7
43×1.5	48/0.20	22.8	1072	13.7
48×1.5	48/0.20	23.2	1165	13.7
2×2.5	77/0.20	8.4	143	8.21
3×2.5	77/0.20	9.2	176	8.21
5×2.5	77/0.20	10.8	246	8.21
7×2.5	77/0.20	11.6	308	8.21
11×2.5	77/0.20	15.2	475	8.21
16×2.5	77/0.20	16.8	629	8.21
19×2.5	77/0.20	17.6	719	8.21
20×2.5	77/0.20	19.0	809	8.21
24×2.5	77/0.20	21.0	942	8.21
33×2.5	77/0.20	23.0	1219	8.21
37×2.5	77/0.20	24.0	1351	8.21
43×2.5	77/0.20	26.8	1559	8.21
48×2.5	77/0.20	27.2	1702	8.21
2×4.0	77/0.26	9.6	194	5.09
3×4.0	77/0.26	10.5	244	5.09
5×4.0	77/0.26	12.4	351	5.09
7×4.0	77/0.26	13.8	463	5.09
11×4.0	77/0.26	17.7	696	5.09
16×4.0	77/0.26	20.2	987	5.09
19×4.0	77/0.26	21.2	1132	5.09
20×4.0	77/0.26	22.2	1202	5.09
24×4.0	77/0.26	24.8	1418	5.09
33×4.0	77/0.26	27.2	1857	5.09
37×4.0	77/0.26	28.2	2047	5.09
43×4.0	77/0.26	31.8	2413	5.09
48×4.0	77/0.26	32.3	2643	5.09



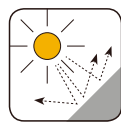
Corona Resistant



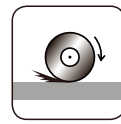
Highly Flexible



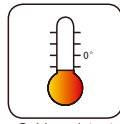
UV Resistant



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



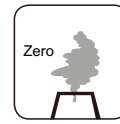
Low Toxicity  
NF X70-100/NF F83 808  
TM1-04/BS 6853



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