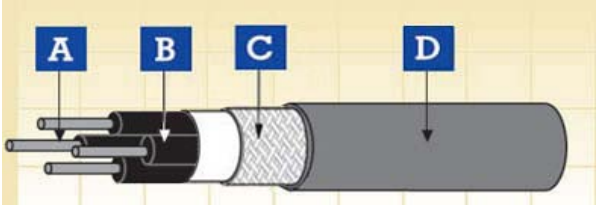
Low Smoke Halogen Free Flame Retardant Screened Multicore Cables WDZ-DCKP-100, WDZ-DCKP-125 250V, 750V



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, 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

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-100); 125°C (WDZ-DCKP-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-DCKP-100, WDZ-DCKP-125 250V

Number of conductor×Nominal Cross-Sectional Area	Conductor Construction	Overall Diameter	Weight	Maximum Conductor Resistance 20°C
mm²	No/mm	mm	kg/km	Ω/km
2×0.5	16/0.20	7.4	97	40.1
3×0.5	16/0.20	8.1	107	40.1

Chinese Standard Rolling Stock Cables

Number of conductor×Nominal Cross-Sectional Area	Conductor Construction	Overall Diameter	Weight	Maximum Conductor Resistance 20°C
mm²	No/mm	mm	kg/km	Ω/km
5×0.5	16/0.20	9.2	139	40.1
7×0.5	16/0.20	9.8	163	40.1
11×0.5	16/0.20	12.0	228	40.1
16×0.5	16/0.20	13.0	282	40.1
19×0.5	16/0.20	14.0	327	40.1
20×0.5	16/0.20	14.6	347	40.1
24×0.5	16/0.20	15.9	396	40.1
33×0.5	16/0.20	17.3	490	40.1
37×0.5	16/0.20	17.8	530	40.1
43×0.5	16/0.20	20.4	622	40.1
48×0.5	16/0.20	20.7	701	40.1
2×0.75	24/0.20	7.9	109	26.7
3×0.75	24/0.20	8.7	122	26.7
5×0.75	24/0.20	9.8	159	26.7
7×0.75	24/0.20	10.5	191	26.7
11×0.75	24/0.20	13.0	272	26.7
16×0.75	24/0.20	14.6	356	26.7
19×0.75	24/0.20	15.2	398	26.7
20×0.75	24/0.20	15.8	424	26.7
24×0.75	24/0.20	17.4	484	26.7
33×0.75	24/0.20	18.9	607	26.7
37×0.75	24/0.20	20.1	706	26.7
43×0.75	24/0.20	22.3	809	26.7
48×0.75	24/0.20	22.6	871	26.7
2×1.0	32/0.20	8.3	120	20.0
3×1.0	32/0.20	9.0	136	20.0
5×1.0	32/0.20	10.3	182	20.0
7×1.0	32/0.20	11.0	218	20.0
11×1.0	32/0.20	14.1	327	20.0
16×1.0	32/0.20	15.4	412	20.0
19×1.0	32/0.20	16.1	464	20.0
20×1.0	32/0.20	16.8	493	20.0
24×1.0	32/0.20	18.4	567	20.0
33×1.0	32/0.20	20.7	765	20.0
37×1.0	32/0.20	21.4	831	20.0
43×1.0	32/0.20	23.7	953	20.0
48×1.0	32/0.20	24.1	1029	20.0
2×1.5	48/0.20	8.9	140	13.7
3×1.5	48/0.20	9.7	161	13.7
5×1.5	48/0.20	11.1	221	13.7
7×1.5	48/0.20	11.9	269	13.7
11×1.5	48/0.20	15.3	407	13.7
16×1.5	48/0.20	16.8	523	13.7
19×1.5	48/0.20	17.6	591	13.7
20×1.5	48/0.20	18.3	628	13.7
24×1.5	48/0.20	20.8	773	13.7
33×1.5	48/0.20	22.6	982	13.7
37×1.5	48/0.20	23.4	1068	13.7
43×1.5	48/0.20	26.4	1259	13.7
48×1.5	48/0.20	26.8	1336	13.7
2×2.5	77/0.20	9.8	176	8.21
3×2.5	77/0.20	10.7	212	8.21
5×2.5	77/0.20	12.4	291	8.21
7×2.5	77/0.20	13.3	360	8.21
11×2.5	77/0.20	17.3	549	8.21
16×2.5	77/0.20	19.0	718	8.21
19×2.5	77/0.20	20.5	865	8.21
20×2.5	77/0.20	21.4	919	8.21
24×2.5	77/0.20	23.6	1065	8.21
33×2.5	77/0.20	26.2	1395	8.21
37×2.5	77/0.20	27.1	1527	8.21

Number of conductor×Nominal Cross-Sectional Area	Conductor Construction	Overall Diameter	Weight	Maximum Conductor Resistance 20°C
mm²	No/mm	mm	kg/km	Ω/km
43×2.5	77/0.20	30.4	1800	8.21
48×2.5	77/0.20	30.9	1956	8.21
2×4.0	77/0.26	11.4	239	5.09
3×4.0	77/0.26	12.4	296	5.09
5×4.0	77/0.26	14.9	433	5.09
7×4.0	77/0.26	16.1	543	5.09
11×4.0	77/0.26	21.2	862	5.09
16×4.0	77/0.26	23.3	1137	5.09
19×4.0	77/0.26	24.5	1299	5.09
20×4.0	77/0.26	26.1	1408	5.09
24×4.0	77/0.26	28.8	1638	5.09
33×4.0	77/0.26	31.7	2173	5.09
37×4.0	77/0.26	32.9	2383	5.09
43×4.0	77/0.26	37.8	2755	5.09
48×4.0	77/0.26	38.4	3009	5.09

WDZ-DCKP-100, WDZ-DCKP-125 750V

Number of conductor×Nominal Cross-Sectional Area	Conductor Construction	Overall Diameter	Weight	Maximum Conductor Resistance 20°C
mm²	No/mm	mm	kg/km	Ω/km
2×0.5	16/0.20	8.6	100	40.1
3×0.5	16/0.20	9.4	113	40.1
5×0.5	16/0.20	10.8	153	40.1
7×0.5	16/0.20	11.6	182	40.1
11×0.5	16/0.20	14.9	277	40.1
16×0.5	16/0.20	16.2	343	40.1
19×0.5	16/0.20	17.0	384	40.1
20×0.5	16/0.20	17.8	410	40.1
24×0.5	16/0.20	20.1	509	40.1
33×0.5	16/0.20	21.9	636	40.1
37×0.5	16/0.20	22.6	689	40.1
43×0.5	16/0.20	25.6	808	40.1
48×0.5	16/0.20	25.9	870	40.1
2×0.75	24/0.20	9.1	112	26.7
3×0.75	24/0.20	9.9	128	26.7
5×0.75	24/0.20	11.5	175	26.7
7×0.75	24/0.20	12.3	211	26.7
11×0.75	24/0.20	15.9	319	26.7
16×0.75	24/0.20	17.4	406	26.7
19×0.75	24/0.20	18.2	457	26.7
20×0.75	24/0.20	19.6	525	26.7
24×0.75	24/0.20	21.6	603	26.7
33×0.75	24/0.20	23.5	759	26.7
37×0.75	24/0.20	24.3	828	26.7
43×0.75	24/0.20	27.5	970	26.7
48×0.75	24/0.20	27.9	1048	26.7
2×1.0	32/0.20	9.5	123	20.0
3×1.0	32/0.20	10.3	141	20.0
5×1.0	32/0.20	11.9	195	20.0
7×1.0	32/0.20	12.8	238	20.0
11×1.0	32/0.20	16.6	361	20.0
16×1.0	32/0.20	18.2	462	20.0
19×1.0	32/0.20	19.7	563	20.0
20×1.0	32/0.20	20.6	600	20.0
24×1.0	32/0.20	22.6	690	20.0
33×1.0	32/0.20	25.1	894	20.0
37×1.0	32/0.20	26.0	974	20.0
43×1.0	32/0.20	28.9	1121	20.0
48×1.0	32/0.20	29.4	1215	20.0

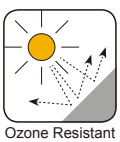
Chinese Standard Rolling Stock Cables

Number of conductor×Nominal Cross-Sectional Area	Conductor Construction	Overall Diameter	Weight	Maximum Conductor Resistance 20°C
mm²	No/mm	mm	kg/km	Ω/km
2×1.5	48/0.20	10.0	143	13.7
3×1.5	48/0.20	11.0	172	13.7
5×1.5	48/0.20	12.7	235	13.7
7×1.5	48/0.20	14.1	299	13.7
11×1.5	48/0.20	17.8	442	13.7
16×1.5	48/0.20	20.2	615	13.7
19×1.5	48/0.20	21.2	698	13.7
20×1.5	48/0.20	22.1	744	13.7
24×1.5	48/0.20	24.4	858	13.7
33×1.5	48/0.20	27.0	1120	13.7
37×1.5	48/0.20	28.0	1224	13.7
43×1.5	48/0.20	31.4	1455	13.7
48×1.5	48/0.20	31.9	1580	13.7
2×2.5	77/0.20	11.0	180	8.21
3×2.5	77/0.20	12.0	218	8.21
5×2.5	77/0.20	14.4	314	8.21
7×2.5	77/0.20	15.5	391	8.21
11×2.5	77/0.20	20.4	623	8.21
16×2.5	77/0.20	22.4	816	8.21
19×2.5	77/0.20	23.5	933	8.21
20×2.5	77/0.20	25.0	1011	8.21
24×2.5	77/0.20	27.6	1173	8.21
33×2.5	77/0.20	30.4	1562	8.21
37×2.5	77/0.20	31.5	1712	8.21
43×2.5	77/0.20	36.2	2033	8.21
48×2.5	77/0.20	36.8	2213	8.21
2×4.0	77/0.26	12.2	228	5.09
3×4.0	77/0.26	13.3	288	5.09
5×4.0	77/0.26	16.0	424	5.09
7×4.0	77/0.26	17.3	540	5.09
11×4.0	77/0.26	22.9	867	5.09
16×4.0	77/0.26	25.6	1168	5.09
19×4.0	77/0.26	26.9	1340	5.09
20×4.0	77/0.26	28.2	1424	5.09
24×4.0	77/0.26	31.4	1707	5.09
33×4.0	77/0.26	34.4	2230	5.09
37×4.0	77/0.26	36.7	2514	5.09
43×4.0	77/0.26	41.0	2904	5.09
48×4.0	77/0.26	41.7	3177	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 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