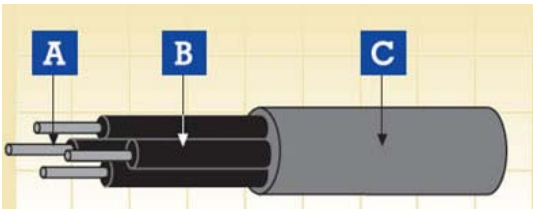
Low Smoke Halogen Free Flame Retardant Multicore Cables WDZ-DCK-100, WDZ-DCK-125 250V, 750V



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
mm²	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
mm²	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

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	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
mm²	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
mm²	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/EN50265-2-1


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