



GL Power supply system

Integrated Solution for mobile power supply



目录

电缆 cable

控制电缆 control cable..... 1

动力电缆 Power cable.....6

 总线电缆 Bus cable.....9

 伺服电缆 Servo cable15

 拖令电缆 Festoon cable.....17

 吊具电缆 Sling cable.....21

 卷筒电缆 Reel cable.....25

装配电缆.....30

卷筒系统..... . 31

柔性控制电缆



Flexible control cable

技术参数 Technical Data		
	商品名称 Type	MC-C
	型号描述 Type designation	CONTROL CABLE
	产品标准与认证 approvals/standard	DIN VDE 0472-804.B, IEC 60332-1
	运用范围 application	As long as it is used in the electrical control components of mechanical and logistics equipment
电气特性 electrical parameters	额定电压 rated voltage	Uo/U 300/500V
	交流使用最高许用电压 AC maximum	Uo/U 0.7/1.2kv
	直流使用最高许用电压 DC maximum	Uo/U 0.9/1.8kv
	交流耐压测试 AC test voltage	
	动力芯 power cores	2.5kv, 5min
	控制芯 control cores	1.5kv, 5min
	载流量 current-carrying capacity	According to DIN VDE 0298 , PART4
	电磁兼容性 EMC	ASSURED RESULT OF SPECIAL CABLE DESIGN
热力学特性 thermal parameters	适用环境温度 ambient temperature	
	活动运用 fully flexible operation	PVC:-5℃~+70℃; PUR:-30℃~+80℃;
	固定使用 fixed operation	PVC:-30℃~+70℃; PUR:-40℃~+90℃;
	许用导线温度 maximum permissible operating temperature of the canductor	90℃
	短路时导线许用温度 short-circuit temperature of the canductor	250℃
机械特性 mechanical parameters	抗拉力 tensile load	15 times the wire diameter
	最大许用扭转 torsional stresses	
	最小弯曲半径 minimum bending radii	8D
	S 形交变转向最小间距 minimum distance with S-TYPE directional changes	20D
	最高运行速度 travel speed	5m/min
化学特性 chemical parameters	耐油性 resistance to oil	DIN VDE 0473, part 811-2-1, para.10
	耐气候性 weather resistance	Unrestricted use outdoor and indoor , resistant to Ozone , UV and moisture
	耐水性 water compatibility	given and verified in long-term tests

非屏蔽控制电缆
Unshielded control cable

常规型号 standard model

MC-C1H1300/500V

订货型号 GL KABEL CODE	电 缆 规 格 DESCRIPTION	标称外径 $\varnothing$ NOMINAL (mm)	最大外径 MAXIMUM	电缆重量 CABLE WEIGHT (kg/km)
MC-C1H1 020034X	2x0.34	4.8	5.6	31
MC-C1H1 020050X	2x0.5	5.2	6.0	37
MC-C1H1 020075X	2x0.75	5.9	6.7	47
MC-C1H1 020100X	2x1.0	6.4	7.2	57
MC-C1H1 020150X	2x1.5	7.2	8.0	73
MC-C1H1 020250X	2x2.5	8.2	9.0	97
MC-C1H1 030034X	3x0.34	5.0	5.8	37
MC-C1H1 030050X	3x0.5	5.5	6.3	46
MC-C1H1 030075X	3x0.75	6.2	7.0	59
MC-C1H1 030100X	3x1.0	6.7	7.5	72
MC-C1H1 030150X	3x1.5	7.5	8.4	94
MC-C1H1 030250X	3x2.5	8.9	9.8	133
MC-C1H1 040034X	4x0.34	5.4	6.2	45
MC-C1H1 040050X	4x0.5	6.2	7.0	58
MC-C1H1 040075X	4x0.75	6.7	7.5	72
MC-C1H1 040100X	4x1.0	7.3	8.1	89
MC-C1H1 040150X	4x1.5	8.5	9.3	121
MC-C1H1 040250X	4x2.5	9.7	10.7	168
MC-C1H1 050034X	5x0.34	6.0	6.8	55
MC-C1H1 050050X	5x0.5	6.6	7.4	70
MC-C1H1 050075X	5x0.75	7.2	8.0	87
MC-C1H1 050100X	5x1.0	7.9	8.7	106
MC-C1H1 050150X	5x1.5	9.2	10.1	147
MC-C1H1 070034X	7x0.34	6.5	7.3	68
MC-C1H1 070050X	7x0.5	7.2	8.0	86
MC-C1H1 070075X	7x0.75	7.8	8.7	109
MC-C1H1 070100X	7x1.0	8.8	9.7	139
MC-C1H1 070150X	7x1.5	10.0	11.0	172
MC-C1H1 080034X	8x0.34	6.9	7.7	77
MC-C1H1 080050X	8x0.5	7.7	8.5	97
MC-C1H1 080075X	8x0.75	8.6	9.5	126
MC-C1H1 080100X	8x1.0	9.5	10.4	157
MC-C1H1 080150X	8x1.5	10.8	11.9	212
MC-C1H1 100034X	10x0.34	8.0	8.8	93
MC-C1H1 100050X	10x0.5	9.1	10.0	123
MC-C1H1 100075X	10x0.75	9.9	10.9	157
MC-C1H1 100100X	10x1.0	11.2	12.3	200
MC-C1H1 100150X	10x1.5	12.8	14.1	271

非屏蔽控制电缆
Unshielded control cable

常规型号 standard model

MC-C1H1300/500V

订货型号 GL KABEL CODE	电 缆 规 格 DESCRIPTION	标称外径 $\varnothing$ NOMINAL (mm)	最大外径 MAXIMUM	电缆重量 CABLE WEIGHT (kg/km)
MC-C1H1 120034X	12x0.34	8.2	9.0	105
MC-C1H1 120050X	12x0.5	9.3	10.3	141
MC-C1H1 120075X	12x0.75	10.2	11.2	179
MC-C1H1 120100X	12x1.0	11.5	12.7	229
MC-C1H1 120150X	12x1.5	13.2	14.5	312
MC-C1H1 160034X	16x0.34	9.2	10.1	135
MC-C1H1 160050X	16x0.5	10.3	11.3	175
MC-C1H1 160075X	16x0.75	11.5	12.6	230
MC-C1H1 160100X	16x1.0	12.7	14.0	288
MC-C1H1 160150X	16x1.5	14.8	16.3	402
MC-C1H1 180034X	18x0.34	9.7	10.6	150
MC-C1H1 180050X	18x0.5	10.8	11.9	193
MC-C1H1 180075X	18x0.75	12.1	13.3	254
MC-C1H1 180100X	18x1.0	13.4	14.7	321
MC-C1H1 180150X	18x1.5	15.6	17.2	448
MC-C1H1 200034X	20x0.34	10.1	11.1	164
MC-C1H1 200050X	20x0.5	11.5	12.7	218
MC-C1H1 200075X	20x0.75	12.6	13.9	280
MC-C1H1 200100X	20x1.0	14.3	15.7	359
MC-C1H1 200150X	20x1.5	16.6	18.2	501
MC-C1H1 200250X	20x2.5	19.4	21.4	722
MC-C1H1 240034X	24x0.34	11.3	12.5	196
MC-C1H1 240050X	24x0.5	12.7	14.0	252
MC-C1H1 240075X	24x0.75	14.2	15.6	335
MC-C1H1 240100X	24x1.0	15.8	17.4	422
MC-C1H1 240150X	24x1.5	18.4	20.2	590
MC-C1H1 250034X	25x0.34	11.6	12.7	202
MC-C1H1 250050X	25x0.5	13.0	14.3	263
MC-C1H1 250075X	25x0.75	14.5	15.9	347
MC-C1H1 250100X	25x1.0	16.1	17.8	437
MC-C1H1 250150X	25x1.5	18.8	20.7	612
MC-C1H1 360034X	36x0.34	12.8	14.1	271
MC-C1H1 360050X	36x0.5	14.6	16.1	360
MC-C1H1 360075X	36x0.75	16.1	17.7	469
MC-C1H1 360100X	36x1.0	18.2	20.0	606

外护套:黑色, 灰色; X 线芯:1、全数字编码; 2、全彩色线芯 Outer: black, grey; X core: 1. digital coding; 2. Colored core

屏蔽控制电缆
Shielded control cable

常规型号 standard model

MC-C1H2300/500V

订货型号 GL KABEL CODE	电 缆 规 格 DESCRIPTION	标称外径 ϕ NOMINAL (mm)	最大外径 MAXIMUM	电缆重量 CABLE WEIGHT (kg/km)
MC-C1H2 020034X	2x0.34	5.5	6.3	48
MC-C1H2 020050X	2x0.5	6.1	6.9	59
MC-C1H2 020075X	2x0.75	6.6	7.4	70
MC-C1H2 020100X	2x1.0	7.1	7.9	82
MC-C1H2 020150X	2x1.5	7.9	8.7	102
MC-C1H2 020250X	2x2.5	9.1	10.0	135
MC-C1H2 030034X	3x0.34	5.9	6.7	57
MC-C1H2 030050X	3x0.5	6.4	7.2	71
MC-C1H2 030075X	3x0.75	6.9	7.7	83
MC-C1H2 030100X	3x1.0	7.4	8.3	98
MC-C1H2 030150X	3x1.5	8.5	9.4	129
MC-C1H2 030250X	3x2.5	9.6	10.5	169
MC-C1H2 040034X	4x0.34	6.3	7.1	66
MC-C1H2 040050X	4x0.5	6.9	7.7	79
MC-C1H2 040075X	4x0.75	7.4	8.2	97
MC-C1H2 040100X	4x1.0	8.0	8.8	116
MC-C1H2 040150X	4x1.5	9.2	10.1	153
MC-C1H2 040250X	4x2.5	10.4	11.4	208
MC-C1H2 050034X	5x0.34	6.7	7.5	76
MC-C1H2 050050X	5x0.5	7.3	8.1	93
MC-C1H2 050075X	5x0.75	7.9	8.7	112
MC-C1H2 050100X	5x1.0	8.8	9.7	138
MC-C1H2 050150X	5x1.5	9.9	10.9	179
MC-C1H2 070034X	7x0.34	7.2	8.0	91
MC-C1H2 070050X	7x0.5	7.9	8.8	106
MC-C1H2 070075X	7x0.75	8.7	9.6	140
MC-C1H2 070100X	7x1.0	9.5	10.5	170
MC-C1H2 070150X	7x1.5	10.7	11.8	223
MC-C1H2 080034X	8x0.34	7.6	8.5	101
MC-C1H2 080050X	8x0.5	8.6	9.5	128
MC-C1H2 080075X	8x0.75	9.3	10.2	156
MC-C1H2 080100X	8x1.0	10.2	11.2	190
MC-C1H2 080150X	8x1.5	11.7	12.8	256
MC-C1H2 100034X	10x0.34	8.9	9.8	126
MC-C1H2 100050X	10x0.5	9.8	10.8	155
MC-C1H2 100075X	10x0.75	10.6	11.7	192
MC-C1H2 100100X	10x1.0	11.9	13.1	240
MC-C1H2 100150X	10x1.5	13.5	14.9	317

屏蔽控制电缆
Shielded control cable

常规型号 standard model

MC-C1H2300/500V

订货型号 GL KABEL CODE	电 缆 规 格 DESCRIPTION	标称外径 ϕ NOMINAL (mm)	最大外径 MAXIMUM	电缆重量 CABLE WEIGHT (kg/km)
MC-C1H2 120034X	12x0.34	9.1	10.0	138
MC-C1H2 120050X	12x0.5	10.0	11.0	174
MC-C1H2 120075X	12x0.75	10.9	12.0	215
MC-C1H2 120100X	12x1.0	12.2	13.5	270
MC-C1H2 120150X	12x1.5	14.1	15.5	366
MC-C1H2 160034X	16x0.34	9.9	10.9	168
MC-C1H2 160050X	16x0.5	11.2	12.3	216
MC-C1H2 160075X	16x0.75	12.2	13.4	270
MC-C1H2 160100X	16x1.0	13.4	14.8	334
MC-C1H2 160150X	16x1.5	15.5	17.1	455
MC-C1H2 180034X	18x0.34	10.4	11.4	184
MC-C1H2 180050X	18x0.5	11.7	12.9	237
MC-C1H2 180075X	18x0.75	12.8	14.0	297
MC-C1H2 180100X	18x1.0	14.3	15.7	376
MC-C1H2 180150X	18x1.5	16.3	17.9	504
MC-C1H2 180250X	18x2.5	19.4	21.3	743
MC-C1H2 200034X	20x0.34	10.8	11.9	200
MC-C1H2 200050X	20x0.5	12.2	13.4	259
MC-C1H2 200075X	20x0.75	13.3	14.7	325
MC-C1H2 200100X	20x1.0	15.0	16.5	410
MC-C1H2 200150X	20x1.5	17.3	19.0	561
MC-C1H2 240034X	24x0.34	12.0	13.2	236
MC-C1H2 240050X	24x0.5	13.4	14.8	298
MC-C1H2 240075X	24x0.75	14.9	16.4	385
MC-C1H2 240100X	24x1.0	16.7	18.4	486
MC-C1H2 240150X	24x1.5	19.5	21.5	687
MC-C1H2 250034X	25x0.34	12.3	13.5	243
MC-C1H2 250050X	25x0.5	13.9	15.3	316
MC-C1H2 250075X	25x0.75	15.2	16.7	398
MC-C1H2 250100X	25x1.0	17.0	18.7	503
MC-C1H2 250150X	25x1.5	19.9	21.9	711
MC-C1H2 360034X	36x0.34	13.5	14.9	317
MC-C1H2 360050X	36x0.5	15.3	16.9	413
MC-C1H2 360075X	36x0.75	17.0	18.7	535
MC-C1H2 360100X	36x1.0	19.3	21.2	702

外护套:黑色, 灰色; X 线芯:1、全数字编码; 2、全彩色线芯 Outer: black, grey; X core: 1. digital coding; 2. Colored core

柔性动力电缆



Flexible Power cable

技术参数 Technical Data		
	商品名称 Type	MC-P
	型号描述 Type designation	POWER CABLE
	产品标准与认证 approvals/standard	DIN VDE 0472-804.B, IEC 60332-1
	运用范围 application	It is widely used in mechanical and logistics equipment power connection
电气特性 electrical parameters	额定电压 rated voltage	Uo/U 0.6/1kV
	交流使用最高许用电压 AC maximum	Uo/U 0.7/1.2kv
	直流使用最高许用电压 DC maximum	Uo/U 0.9/1.8kv
	交流耐压测试 AC test voltage	
	动力芯 power cores	3.5kv, 5min
	控制芯 control cores	3.5kv, 5min
	载流量 current-carrying capacity	According to DIN VDE 0298 , PART4
	电磁兼容性 EMC	ASSURED RESULT OF SPECIAL CABLE DESIGN
热力学特性 thermal parameters	适用环境温度 ambient temperature	
	活动运用 fully flexible operation	PVC:-15℃~+70℃; PUR:-30℃~+80℃;
	固定使用 fixed operation	PVC:-20℃~+70℃; PUR:-40℃~+90℃;
	许用导线温度 maximum permissible operating temperature of the conductor	90℃
	短路时导线许用温度 short-circuit temperature of the conductor	250℃
机械特性 mechanical parameters	抗拉力 tensile load	15 times the wire diameter
	最大许用扭转 torsional stresses	
	最小弯曲半径 minimum bending radii	10D
	S 形交变转向最小间距 minimum distance with S-TYPE directional changes	20D
	最高运行速度 travel speed	5m/min
化学特性 chemical parameters	耐油性 resistance to oil	DIN VDE 0473, part 811-2-1, para.10
	耐气候性 weather resistance	Unrestricted use outdoor and indoor , resistant to Ozone , UV and moisture
	耐水性 water compatibility	given and verified in long-term tests

3 相 4 线制电缆
3-phase 4-wire cable

常规型号 standard model

MC-P42H0.6/1KV

订货型号 GL KABEL CODE	电 缆 规 格 DESCRIPTION	标称外径 ϕ NOMINAL (mm)	参考载流 量 capacity (A)	电缆重量 CABLE WEIGHT (kg/km)
MC-P42H 00150015X	3x1.5+1x1.5	8.2	11	104.3
MC-P42H 00250015X	3x2.5+1x1.5	9.5	15	123.5
MC-P42H 00250025X	3x2.5+1x2.5	10.0	15	145.6
MC-P42H 00400025X	3x4+1x2.5	11.2	33	203.2
MC-P42H 00400040X	3x4+1x4	11.8	33	214.5
MC-P42H 00600040X	3x6+1x4	12.8	42	312.4
MC-P42H 00600060X	3x6+1x6	13.6	42	327.1
MC-P42H 01000060X	3x10+1x6	15.8	59	503.6
MC-P42H 01000100X	3x10+1x10	16.7	59	526.5
MC-P42H 01600100X	3x16+1x10	19.7	79	795.4
MC-P42H 01600160X	3x16+1x16	20.5	79	857.2
MC-P42H 02500100X	3x25+1x10	22.8	105	1160.2
MC-P42H 02500160X	3x25+1x16	23.6	105	1260.3
MC-P42H 02500250X	3x25+1x25	25.3	105	1315.7
MC-P42H 03500160X	3x35+1x16	28.5	130	1560
MC-P42H 03500160X	3x35+1x25	29.3	130	1680
MC-P42H 03500350X	3x35+1x35	30.5	130	1866
MC-P42H 05000160X	3x50+1x16	32.3	162	2100
MC-P42H 05000250X	3x50+1x25	33.6	162	2360
MC-P42H 05000350X	3x50+1x35	35.2	162	2570
MC-P42H 05000500X	3x50+1x50	36.6	162	2867
MC-P42H 07000350X	3x70+1x35	37.4	200	2980
MC-P42H 07000500X	3x70+1x50	38.5	200	3250
MC-P42H 07000700X	3x70+1x70	39.4	200	3562
MC-P42H 09500500X	3x95+1x50	43.8	241	3910
MC-P42H 09500700X	3x95+1x70	44.6	241	4350
MC-P42H 09500950X	3x95+1x95	45.6	241	4714
MC-P42H 12000700X	3x120+1x70	48	282	7120
MC-P42H 12000950X	3x120+1x95	50	282	7560
MC-P42H 12001200X	3x120+1x120	53	282	8150
MC-P42H 15000950X	3x150+1x95	54	323	9000
MC-P42H 15001200X	3x150+1x120	56	323	9450
MC-P42H 15001500X	3x150+1x150	58	323	9900
MC-P42H 18500950X	3x185+1x95	60	369	10730
MC-P42H 18501200X	3x185+1x120	62	369	11060
MC-P42H 18501500X	3x185+1x150	64	369	11560
MC-P42H 18501850X	3x185+1x185	66	369	12050

外护套:黑色,灰色; X 线芯:1、黑色线芯,白色数字编码,带黄绿线;2、彩色线芯,带黄绿线;3、黑色线芯,白色数字编码,不带黄绿线;4、彩色线芯,不带黄绿线
Outer: black, grey; X core: 1. Black core, white digital coding, yellow/green line; 2. Colored core, with yellow/green line;
3. Black core, white digital coding, without yellow/green line; 4. Colored line core, without yellow/green line

3 相 5 线制电缆
3-phase 5-wire cable

常规型号 standard model
MC-P52H 0.6/1KV

订货型号 GL KABEL CODE	电 缆 规 格 DESCRIPTION	标称外径 ϕ NOMINAL (mm)	参考载流 量 capacity (A)	电缆重量 CABLE WEIGHT (kg/km)
MC-P52H 00150015X	3x1. 5+2x1. 5	12. 1	11	166
MC-P52H 00250015X	3x2. 5+2x1. 5	12. 8	15	254
MC-P52H 00250025X	3x2. 5+2x2. 5	13. 5	15	315
MC-P52H 00400025X	3x4+2x2. 5	15. 2	33	337
MC-P52H 00400040X	3x4+2x4	16. 2	33	382
MC-P52H 00600040X	3x6+2x4	17. 2	42	446
MC-P52H 00600060X	3x6+2x6	17. 5	42	505
MC-P52H 01000060X	3x10+2x6	20. 6	59	690
MC-P52H 01000100X	3x10+2x10	22. 3	59	791
MC-P52H 01600100X	3x16+2x10	24. 4	79	1020
MC-P52H 01600160X	3x16+2x16	26. 5	79	1161
MC-P52H 02500100X	3x25+2x10	28. 9	105	1324
MC-P52H 02500160X	3x25+2x16	28. 3	105	1454
MC-P52H 02500250X	3x25+2x25	30. 2	105	1664
MC-P52H 03500160X	3x35+2x16	32. 8	130	1962
MC-P52H 03500160X	3x35+2x25	33. 5	130	2105
MC-P52H 03500350X	3x35+2x35	35. 6	130	2318
MC-P52H 05000160X	3x50+2x16	36. 7	162	2370
MC-P52H 05000250X	3x50+2x25	37. 3	162	2622
MC-P52H 05000350X	3x50+2x35	38. 4	162	2869
MC-P52H 05000500X	3x50+2x50	40. 2	162	3153
MC-P52H 07000350X	3x70+2x35	44. 8	200	3530
MC-P52H 07000500X	3x70+2x50	45. 2	200	3875
MC-P52H 07000700X	3x70+2x70	47. 7	200	4364
MC-P52H 09500500X	3x95+2x50	48. 1	241	4968
MC-P52H 09500700X	3x95+2x70	48. 8	241	5457
MC-P52H 09500950X	3x95+2x95	49. 3	241	5985
MC-P52H 12000700X	3x120+2x70	54. 0	282	6742
MC-P52H 12000950X	3x120+2x95	55. 0	282	7271
MC-P52H 12001200X	3x120+2x120	57. 0	282	7683
MC-P52H 15000950X	3x150+2x95	58. 0	323	7887
MC-P52H 15001200X	3x150+2x120	59. 0	323	8428
MC-P52H 15001500X	3x150+2x150	61. 0	323	9105
MC-P52H 18500950X	3x185+2x95	62. 0	369	9180
MC-P52H 18501200X	3x185+2x120	64. 0	369	9793
MC-P52H 18501500X	3x185+2x150	66. 0	369	10470
MC-P52H 18501850X	3x185+2x185	68. 0	369	11228

外护套:黑色, 灰色; X 线芯:1、黑色线芯, 白色数字编码, 带黄绿线 2、彩色线芯, 带黄绿线 3、黑色线芯, 白色数字编码, 不带黄绿线 4、彩色线芯, 不带黄绿线
Outer: black, grey; X core: 1. Black core, white digital coding, yellow/green line; 2. Colored core, with yellow/green line;
3. Black core, white digital coding, without yellow/green line; 4. Colored line core, without yellow/green line

PROFIBUS 总线电缆
PROFIBUS Bus cable

技术参数 Technical Data		
电缆参数 Cable parameters	导体 Conductors	IEC 60228 CLASS 6,VDE 0295 CLASS 6
	绝缘 Insulation	Foam polyolefin 02Y(UL-CSA standards)
	线 芯 标 识 Core identification	See following table
	总屏蔽 overall shield	≥85% Overlays
	外护套 sheath	Polyurethane 12Y(UL-CSA standards)
	外护套颜色 outer jacket colour	See following table
技术参数 Technical parameters	工作电压 operating voltage	30v or 300v
	测试电压 test voltage	1.5kv, 5min
	电容 mutual capacitance	≤30 Pf/m
	特 性 阻 抗 characteristic impedance	150 Ω ±15 Ω
	传输速率	12Mbit/s with maximum length 200m 0.6Kbit/s with maximum length 1000m
	适用 环 境 温 度 ambient temperature	-30℃~+70℃
	弯曲半径 bending radius	固定安装 static installation 5D 移动安装 Dynamic installation 7.5D
	最大移动速度 maximum speed	300m/min



常规型号 standard model

PROFIBUS DP

订货型号 GL KABEL CODE	电 缆 规 格 DESCRIPTION	标称外径 ϕ NOMINAL (mm)	外护套材料 Outer sheath material	特性波阻抗 Characteristic wave impedance (Ω)
MC-DP-Y1	1x2x0.64(22AWG)	7.0	PVC	150
MC-DP-Y2	2x2x0.64(22AWG)	8.0	PVC	150
MC-DP-H1	1x2x0.64(22AWG)	7.0	PUR	150
MC-DP-H2	2x2x0.64(22AWG)	8.0	PUR	150

外护套颜色：紫色

Sheath color: purple

线芯原色：1 对：红色/绿色，2 对：红色/绿色，橙色/蓝色

Line core primary colors: 1 pairs: red / green, 2 pairs: red / green, orange / blue

PROFINET 总线电缆
PROFINET Bus cable

技术参数 Technical Data		
电缆参数 Cable parameters	导体 Conductors	IEC 60228 CLASS 6, VDE 0295 CLASS 6
	绝缘 Insulation	Foam polyolefin 02Y (UL-CSA standards)
	线 芯 标 识 Core identification	See following table
	总屏蔽 overall shield	≥85% Overlays
	外护套 sheath	Polyurethane 12Y (UL-CSA standards)
	外护套颜色 outer jacket colour	See following table
技术参数 Technical parameters	工作电压 operating voltage	30v or 300v
	测试电压 test voltage	1.5kv, 5min
	电容 mutual capacitance	≤60 Pf/m
	特性阻抗 characteristic impedance	100 Ω ±15 Ω
	传输速率	100Mbit/s with maximum length 100m 10 Mbit/s with maximum length 500m
	适用环境温度 ambient temperature	-30℃ ~ +70℃
	弯曲半径 bending radius	固定安装 static installation 5D 移动安装 Dynamic installation 7.5D
	最大移动速度 maximum speed	300m/min

常规型号 standard model

PROFINET

订货型号 GL KABEL CODE	电 缆 规 格 DESCRIPTION	标称外径 ϕ NOMINAL (mm)	外护套材料 Outer sheath material	特性波阻抗 Characteristic wave impedance (Ω)
MC-PNET-Y1	2x2x0.38 (22AWG)	6.5	PVC	100
MC-PENT-H1	2x2x0.38 (22AWG)	6.5	PUR	100

外护套颜色：绿色

Sheath color: green

线芯原色：白色，黄色，蓝色，橙色

Line core primary colors: white, yellow, blue, orange

CAN BUS 总线电缆
CAN Bus cable

技术参数 Technical Data		
电缆参数 Cable parameters	导体 Conductors	IEC 60228 CLASS 6,VDE 0295 CLASS 6
	绝缘 Insulation	Foam polyolefin 02Y(UL-CSA standards)
	线 芯 标 识 Core identification	See following table
	总屏蔽 overall shield	≥85% Overlays
	外护套 sheath	Polyurethane 12Y(UL-CSA standards)
	外护套颜色 outer jacket colour	See following table
技术参数 Technical parameters	工作电压 operating voltage	30v or 300v
	测试电压 test voltage	1.5kv, 5min
	电容 mutual capacitance	≤60 Pf/m
	特性阻抗 characteristic impedance	120Ω ±15Ω
	传输速率	1Mbit/s with maximum length 40m 5Kbit/s with maximum length 1000m
	适用环境温度 ambient temperature	-30℃~+70℃
	弯曲半径 bending radius	固定安装 static installation 5D 移动安装 Dynamic installation 7.5D
	最大移动速度 maximum speed	300m/min

常规型号 standard model

CAN BUS

订货型号 GL KABEL CODE	电 缆 规 格 DESCRIPTION	标称外径ϕ NOMINAL (mm)	外护套材料 Outer sheath material	特性波阻抗 Characteristic wave impedance (Ω)
MC-CAN-Y1	1x2x0.34	6.6	PVC	120
MC-CAN-Y2	1x2x0.75	8.7	PVC	120
MC-CAN-2Y1	2x2x0.34	8.5	PVC	120
MC-CAN-2Y2	2x2x0.75	11.5	PVC	120
MC-CAN-H1	1x2x0.34	6.6	PUR	120
MC-CAN-H2	1x2x0.75	8.7	PUR	120
MC-CAN-2H1	2x2x0.34	8.5	PUR	120
MC-CAN-2H2	2x2x0.75	11.5	PUR	120

外护套颜色：紫色

Sheath color: purple

线芯原色：1对：白色/棕色，2对：白色/棕色，绿色/黄色

Line core primary colors: 1 pairs: white / brown, 2 pairs: white / brown, green / yellow

DEVICENET 总线电缆
DEVICENET Bus cable

技术参数 Technical Data		
电缆参数 Cable parameters	导体 Conductors	IEC 60228 CLASS 6,VDE 0295 CLASS 6
	绝缘 Insulation	Foam polyolefin 02Y(UL-CSA standards)
	线 芯 标 识 Core identification	See following table
	总屏蔽 overall shield	≥85% Overlays
	外护套 sheath	Polyurethane 12Y(UL-CSA standards)
	外护套颜色 outer jacket colour	See following table
技术参数 Technical parameters	工作电压 operating voltage	30v or 300v
	测试电压 test voltage	1.5kv, 5min
	电容 mutual capacitance	≤60 Pf/m
	特性阻抗 characteristic impedance	120 Ω ±15 Ω
	传输速率	125Kbit/s with maximum length 300m 500Kbit/s with maximum length 100m
	适用环境温度 ambient temperature	-30℃～+70℃
	弯曲半径 bending radius	固定安装 static installation 5D 移动安装 Dynamic installation 7.5D
	最大移动速度 maximum speed	300m/min

常规型号 standard model

DEVICENET

订 货 型 号 GL KABEL CODE	电缆规格 DESCRIPTION	标称外径 ϕ NOMINAL (mm)	外护套材料 Outer sheath material	特性波阻抗 Characteristic wave impedance (Ω)
MC-DNET-Y1	1x2x24AWG+1x2x22AWG)	7.0	PVC	120
MC-DENT-H1	1x2x24AWG+1x2x22AWG	7.0	PUR	120

外护套颜色：蓝色

Sheath color: blue

线芯原色：白色/蓝色，红色/黑色

Line core primary colors: white / blue, red / black

CC-LINK 总线电缆
CC-LINK Bus cable

技术参数 Technical Data		
电缆参数 Cable parameters	导体 Conductors	IEC 60228 CLASS 6, VDE 0295 CLASS 6
	绝缘 Insulation	Foam polyolefin 02Y (UL-CSA standards)
	线 芯 标 识 Core identification	See following table
	总屏蔽 overall shield	≥85% Overlays
	外护套 sheath	Polyurethane 12Y (UL-CSA standards)
	外护套颜色 outer jacket colour	See following table
技术参数 Technical parameters	工作电压 operating voltage	30v or 300v
	测试电压 test voltage	1.5kv, 5min
	电容 mutual capacitance	≤60 Pf/m
	特性阻抗 characteristic impedance	110 Ω ±10 Ω
	传输速率	10Mbit/s with maximum length 100m 156Kbit/s with maximum length 1000m
	适用环境温度 ambient temperature	-30℃ ~ +70℃
	弯曲半径 bending radius	固定安装 static installation 5D 移动安装 Dynamic installation 7.5D
	最大移动速度 maximum speed	300m/min

常规型号 standard model

CC-LINK

订货型号 GL KABEL CODE	电 缆 规 格 DESCRIPTION	标称外径 ϕ NOMINAL (mm)	外护套材料 Outer sheath material	特性波阻抗 Characteristic wave impedance (Ω)
MC-CC-Y	3x20AWG	7.8	PVC	110
MC-CC-H	3x20AWG	7.8	PUR	110

外护套颜色：棕色

Sheath color: brown

线芯原色：白色，黄色，蓝色

Line core primary colors: white, yellow, blue

ETHERENT/CAT5E 总 线 电 缆
ETHERENT/CAT5E Bus cable

技术参数 Technical Data		
电缆参数 Cable parameters	导体 Conductors	IEC 60228 CLASS 6, VDE 0295 CLASS 6
	绝缘 Insulation	Foam polyolefin 02Y (UL-CSA standards)
	线 芯 标 识 Core identification	See following table
	总屏蔽 overallshield	≥85% Overlays
	外护套 sheath	Polyurethane 12Y (UL-CSA standards)
	外护套颜色 outer jacket colour	See following table
技术参数 Technical parameters	工作电压 operating voltage	30v or 300v
	测试电压 test voltage	1.5kv, 5min
	电容 mutual capacitance	≤60 Pf/m
	特性阻抗 characteristic impedance	100 Ω ±10 Ω
	传输速率	1000Mbit/s with maximum length 100m
	适用环境温度 ambient temperature	-30℃ ~ +70℃
	弯曲半径 bending radius	固定安装 static installation 5D 移动安装 Dynamic installation 7.5D
	最大移动速度 maximum speed	300m/min

常规型号 standard model

ETHERENT/CAT5/6

订货型号 GL KABEL CODE	电 缆 规 格 DESCRIPTION	标称外径 ϕ NOMINAL (mm)	外护套材料 Outer sheath material	特性波阻抗 Characteristic wave impedance (Ω)
MC-CAT-Y	4x (2x0.2) C	12.8	PVC	100
MC-CAT-H	4x (2x0.2) C	12.8	PUR	100

外护套颜色：灰色/紫色

Sheath color: gray / Purple

芯线颜色:白色/蓝色,白色/橙色,白色/绿色,白色/棕色

Line core primary colors: white / blue, white / orange, white / green, white / brown

伺服电缆

Servo cable



技术参数 Technical Data

	商品名称 Type	SC
	型号描述 Type designation	Servo cable
	产品标准与认证 approvals/standard	DIN VDE 0472-804.B, IEC 60332-1, -2
	运用范围 application	Mainly used in servo driving mechanism
电气特性 electrical parameters	额定电压 rated voltage	U ₀ /U 0.6/1kV
	交流使用最高许用电压 AC maximum	U ₀ /U 0.7/1.2kv
	直流使用最高许用电压 DC maximum	U ₀ /U 0.9/1.8kv
	交流耐压测试 AC test voltage	
	动力芯 power cores	3.5kv, 5min
	控制芯 control cores	1.5kv, 5min
	载流量 current-carrying capacity	According to DIN VDE 0298 , PART4
	电磁兼容性 EMC	ASSURED RESULT OF SPECIAL CABLE DESIGN
热力学特性 thermal parameters	适用环境温度 ambient temperature	
	活动运用 fully flexible operation	-30℃~+80℃;
	固定使用 fixed operation	-40℃~+90℃;
	许用导线温度 maximum permissible operating temperature of the conductor	90℃
	短路时导线许用温度 short-circuit temperature of the conductor	250℃
机械特性 mechanical parameters	抗拉力 tensile load	15 times the wire diameter
	最大许用扭转 torsional stresses	
	最小弯曲半径 minimum bending radii	10D
	S 形交变转向最小间距 minimum distance with S-TYPE directional changes	20D
	最高运行速度 travel speed	120m/min
化学特性 chemical parameters	耐油性 resistance to oil	DIN VDE 0473, part 811-2-1, para.10
	耐气候性 weather resistance	Unrestricted use outdoor and indoor , resistant to Ozone , UV and moisture
	耐水性 water compatibility	given and verified in long-term tests

伺服电缆
Servo cable

常规型号 standard model

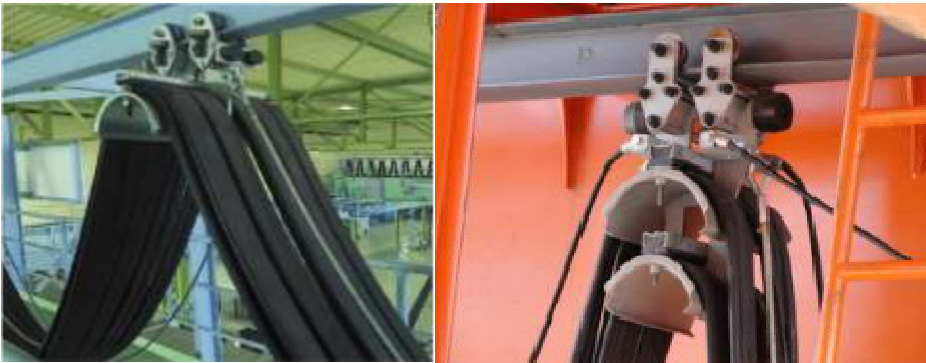
SC-2H2 0.6/1KV

订货型号 GL KABEL CODE	电 缆 规 格 DESCRIPTION	标称外径 $\varnothing$ NOMINAL (mm)	参考载流 current (A)	电缆重量 CABLE WEIGHT (kg/km)
SC-40075X	4x0.75	9.7	5	151.3
SC-40100X	4x1.0	10.1	8	170.2
SC-40150X	4x1.5	11.3	11	212.4
SC-40250X	4x2.5	12.4	15	277.8
SC-40400X	4x4	15.2	33	442.8
SC-40600X	4x6	16.6	42	555.4
SC-41000X	4x10	19.8	59	778.9
SC-41600X	4x16	22.4	79	1068.5
SC-42500X	4x25	28.6	105	1700.1
SC-40075205X	4x0.75+2x0.5	9.8	5	147.8
SC-401002075X	4x1.0+2x0.75	10.2	8	167.9
SC-401502075X	4x1.5+2x0.75	11.3	11	210.0
SC-402502075X	4x2.5+2x0.75	12.4	15	270.3
SC-404002150X	4x4+2x1.5	15.3	33	422.1
SC-406002150X	4x6+2x1.5	16.7	42	532.7
SC-410002150X	4x10+2x1.5	19.9	59	775.3
SC-416002150X	4x16+2x1.5	22.6	79	1107.5
SC-425002150X	4x25+2x1.5	28.8	105	1991.5
SC-401004075X	4x1.0+2x2x0.75	10.9	8	187.9
SC-401504075X	4x1.5+2x2x0.75	12.2	11	231.1
SC-402504075X	4x2.5+2x2x0.75	13.4	15	292.4
SC-404004150X	4x4+2x2x1.5	16.6	33	460.1
SC-406004150X	4x6+2x2x1.5	18.2	42	572.1
SC-410004150X	4x10+2x2x1.5	21.7	59	817.7
SC-416004150X	4x16+2x2x1.5	24.7	79	1152.4
SC-425004150X	4x25+2x2x1.5	31.8	105	2057.6

外护套:橙色; X 线芯:1、黑色线芯, 白色数字编码, 带黄绿线;2、彩色线芯, 带黄绿线;3、黑色线芯, 白色数字编码, 不带黄绿线;4、彩色线芯, 不带黄绿线

Outer: orange; X core: 1. Black core, white digital coding, yellow/green line; 2. Colored core, with yellow/green line; 3. Black core, white digital coding, without yellow/green line; 4. Colored line core, without yellow/green line

拖令电缆
CR/F CABLES



技术参数 Technical Data		
	产品名 Type	FESTOON FLEXR
	型号描述 Type designation	Cur cable
	产 品 标 准 及 认 证 Approvals/standards	DIN VDE 0250, Part 814; VDE-Reg.-Nr. 7519; GOST R
	应用范围 Application	Flexible reeling cable for very high mechanical stresses. Also for applications to which DIN VDE 0168 and 0118 apply: Open-cast and underground mining.
电气特性 Electrical parameters	额定电压 Rated voltage (U ₀ /U)	U ₀ / U = 0.6/1 kv
	交流环境使用许用电压 Maximum permissible operating voltage in AC systems	U ₀ / U = 0.7kv to1.8 kV
	交流耐压测试 AC test voltage	
	动力线芯 Power cores	3.5 kV, 5 min
	控制线芯 Control cores	1.5 kV, 5 min
	载 流 量 Current-carrying capacity	According to DIN VDE 0298, Part4
	总线运用 Bus capatibility	with special elements: ASI-Bus, Profibus, CAN-Bus, Industrial Ethernet alternativ: Fibre optics for transmitting all bus protocols
	电磁兼容性 EMC	Assured as result of special cable design
热学特性 Thermal parameters	使用的环境温度 Ambient temperature	
	移动运用 Fully flexible operation	(- 30 ° to + 80 °)

	固定安装 Fixed installation	(- 40 ° to + 80 °)
	许 用 导 线 温 度 Maximum permissible	90 °
	operating temperature of the	
	conductor	
	短路时导体温度 Short-circuit temperature of	250 °
	the conductor	
机械特性 Mechanical parameters	抗拉力 Tensile load	Up to 15 N/mm2
	最 大 许 用 扭 转 Torsional stresses	(+/-5° /m)
	最小弯曲半径 Minimum bending radii	According to DIN VDE 0298, Part 3
	S 型交变转向最小间距 Minimum distance with S-type	20 x D
	directional changes	
	运行速度 Travel speed	
	小车运用运用 trolley (festoon system)	No restriction. It is recommended to consult the manufacturer for speeds
		beyond 120m/min
	其他附加测试 Additional tests	Reserved bending test, roller bending test, torsional stress test
化学特性 Chemical parameters	耐油性 Resistance to oil	DIN VDE 0473, Part 811-2-1, Para. 10
	耐气候性 Weather resistance	Unrestricted use outdoors and indoors, resistant to ozone, UV and moisture
	耐水性 water compatibility	Given and verified in long-term tests

圆型拖令电缆
Round festoon cable

常规型号 standard model

GL-CR 0.6/1kV

订货型号 GL KABEL CODE	电 缆 规 格 DESCRIPTION	标称外径 $\varnothing$ NOMINAL (mm)	最大许用拉 力 maximum (N)	电缆重量 CABLE WEIGHT (kg/km)
CR 00600X	1x6	5.3	90	71.5
CR 01000X	1x10	6.5	160	120.1
CR 01600X	1x16	8.1	256	181.2
CR 02500X	1x25	9.5	375	270.8
CR 03500X	1x35	11.8	560	384.6
CR 05000X	1x50	14.0	800	548.2
CR 07000X	1x70	15.5	1120	767.1
CR 09500X	1x95	18.3	1520	1025.8
CR 12000X	1x120	20.1	1920	1253.8
CR 15000X	1x150	21.8	2400	1545.3
CR 18500X	1x185	24.5	2960	1918.6
CR 24000X	1x240	27.6	3840	2247.5
CR 30000X	1x300	30.2	4800	2350.6
CR 00250025X	4x2.5	11.2	160	220
CR 00400040X	4x4	14.1	240	350
CR 00600060X	4x6	16.2	360	475
CR 01000100X	4x10	18.5	600	680
CR 01600160X	4x16	23.1	960	1070
CR 02500250X	4x25	27.3	1500	1600
CR 03500350X	4x35	30.5	2100	2100
CR 070150X	7x1.5	10.1	168	172
CR 100150X	10x1.5	12.8	240	271
CR 100150X	12x1.5	13.2	288	312
CR 160150X	16x1.5	14.8	384	402
CR 180150X	18x1.5	15.6	432	448
CR 240150X	24x1.5	18.4	576	590
CR 030050X	3x(2x0.5)c	10.2	120	514
CR 030100X	3x(2x1)c	12.5	150	685
CR 060050X	6x(2x0.5)c	13.2	160	850
CR 060100X	6x(2x1)c	16.3	180	1240

注释：X 为颜色标志位:0=黄绿色, 1=黑色, 2=黄色, 3=蓝色, 4=棕色, 5=红色, 6=白色, 7=绿色, 8=紫色, 9=其他

Note: X is a color marker: 0= yellow green, 1= black, 2= yellow, 3= blue, 4= brown, 5= red, 6= white, 7= green, 8= purple, 9= other

扁型拖令电缆
Flat festoon cable

常规型号 standard model
GL-CF 0.6/1kV

订货型号 GL KABEL CODE	电 缆 规 格 DESCRIPTION	标称外径 $\varnothing$ NOMINAL (mm)	最大许用拉 力 maximum (N)	电缆重量 CABLE WEIGHT (kg/km)
CF 00400040X	4x4	8.5x23.0	240	420
CF 00600060X	4x6	9.1x25.5	360	570
CF 01000100X	4x10	10.5x31.3	600	816
CF 01600160X	4x16	12.1x36.2	960	1070
CF 02500250X	4x25	13.8x42.3	1500	1284
CF 03500350X	4x35	15.8x48.9	2100	2520
CF 070150X	7x1.5	5.5x25.1	168	207
CF 100150X	10x1.5	6.3x35.5	240	325
CF 100150X	12x1.5	6.4x42.0	288	375
CF 160150X	16x1.5	8.2x45.1	384	482
CF 180150X	18x1.5	9.5x48.5	432	538
CF 240150X	24x1.5	11.3x50.6	576	616
CF 030050X	3x (2x0.5) c	10.3x30.8	120	708
CF 030100X	3x (2x1) c	10.3x30.8	150	822
CF 060050X	6x (2x0.5) c	10.5x50.3	160	1020
CF 060100X	6x (2x1) c	10.5x50.3	180	1248
CF 0506PFX	5x6+profinet	8.5x48.5	200	780
CF 0510PFX	5x10+profinet	10.2x63.3	250	1200

注释: X 为颜色标志位:0=黄绿色, 1=黑色, 2=黄色, 3=蓝色, 4=棕色, 5=红色, 6=白色, 7=绿色, 8=紫色, 9=其他
Note: X is a color marker: 0= yellow green, 1= black, 2= yellow, 3= blue, 4= brown, 5= red, 6= white, 7= green, 8= purple, 9= other

吊具电缆
GL-SBC CABLES



技术参数 Technical Data

	产品名 Type	SPREADERFLEX
	型号描述 Type designation	SP cable
	产 品 标 准 及 认 证 Approvals/standards	Based on DIN VDE 0250; GOST R
	应用范围 Application	Feeder cable for loadlifting equipment, e.g. spreader with high mechanical stress in gravityfed collector basket operation.
电气特性 Electrical parameters	额定电压 Rated voltage (U ₀ /U)	U ₀ / U = 300/500V
	交流环境使用许用电压 Maximum permissible operating voltage in AC systems	U ₀ / U = 0.7/1.2 kV
	直流环境使用许用电压 Maximum operating voltage in DC systems	U ₀ / U = 0.9/1.8 kV
	交流耐压测试 AC test voltage	2.5 kV, 5 min
	载流量 Current-carrying capacity	According to DIN VDE 0298, Part4
	总线运用 Bus capatibility	with special elements: ASI-Bus, Profibus, CAN-Bus, Industrial Ethernet alternativ: Fibre optics for transmitting all bus protocols
热 学 特 性 Thermal parameters	使用的环境温度 Ambient temperature	
	移动运用 Fully flexible operation	(- 20 ° C to + 60 ° C)
	固 定 安 装 Fixed installation	(- 20 ° C to + 60 ° C)

	许用导线温度 Maximum permissible operating temperature of the conductor	70 ° C
	短路时导体温度 Short-circuit temperature of the conductor	150 ° C
机 械 特 性 Mechanical parameters	抗拉力 Tensile load	increased tensile load through additional support elements (see chart)
	最大许用扭转 Torsional stresses	Corresponding to application, designed for best torsional properties
	最小弯曲半径（入口处） Minimum bending radii (at the entry)	According to DIN VDE 0298, Part 3
	运行速度 Travel speed	
	起升速度 hoist	UP to 160 m/min
	篮框设计 Basket design	Dimensions depending on system (e.g. dependent on space requirements, hoisting height and speed, wind load)
化 学 特 性 Chemical parameters	耐油性 Resistance to oil	DIN VDE 0473, Part 811-2-1, Para. 10
	耐气候性 Weather resistance	Unrestricted use outdoors and indoors, resistant to ozone, UV and moisture
安 装 Installation		Cable must be laid into the basket in a counterclockwise direction. detailed installation instructions available upon request.

储缆框电缆
Spreader cable

常规型号 standard model
SPREADER 工作电压 300/500V

物料编号	芯数 x 截面积 nxmm ²	导体外径 mm	电缆最小外径 mm	电缆最大外 径 mm	电缆重量 kg/km
MN902025306LWL	30x2, 5+6x1 LWL	2, 0	35, 1	38, 1	2300
MN9020253212LWL	32x2, 5+4x3 LWL	2, 0	35, 1	38, 1	2360
MN902025366LWL	36x2, 5+6x1 LWL	2, 0	37, 5	40, 5	3060
MN902025426LWL	42x2, 5+6x1 LWL	2, 4	48, 1	51, 1	4150
MN902025526LWL	52x2, 5+2x3 LWL	2, 0	46, 7	49, 7	3460
MN902035324LWL	32x3, 5+4x1 LWL	2, 4	38, 7	41, 7	3330
MN902010001	48x1	1, 5	31, 6	33, 1	1860
MN902025024	24x2, 5	2, 0	28, 1	31, 1	1600
MN902025030	30x2, 5	2, 0	31, 6	33, 1	2010
MN902025036	36x2, 5	2, 0	35, 1	36, 5	2330
MN902025042	42x2, 5	2, 0	37, 5	38, 8	3020
MN902025048	48x2, 5	2, 0	42, 3	43, 3	3420
MN902025054	54x2, 5	2, 0	46, 7	47, 5	3460
MN902035020	20x3, 5	2, 4	30, 3	33, 3	2000
MN902035024	24x3, 5	2, 4	31, 5	33, 0	2060
MN902035030	30x3, 5	2, 4	34, 9	37, 9	2610
MN902035036	36x3, 5	2, 4	38, 7	39, 9	3300
MN902035042	42x3, 5	2, 4	43, 4	44, 4	4170
MN902040007	7x4	2, 5	18, 2	20, 2	750
MN9020252401001C	24x2, 5+1x (2x1)C	2, 0	31, 6	34, 6	2090
MN9020252401004C	24x2, 5+4x (2x1)C	2, 0	42, 1	45, 1	3100
MN9020253601002C	36x2, 5+2x (2x1)C	2, 0	42, 3	45, 3	3700

外护套:黑色; 线芯:白色数字编码

Outer: black; core: white digital coding

吊具卷盘电缆
cables for vertical application

物料编号	芯数 x 截面积 nxmm ²	导体外径 mm	电缆最小外径 mm	电缆最大外径 mm	电缆重量 kg/km	最大拉力 N
MN901010049	49x1 (20kN)	1, 3	26, 6	29, 6	1260	3200
MN901025024	24x2, 5 (20kN)	2, 0	26, 2	29, 2	1340	3600
MN901025030	30x2, 5 (20kN)	2, 0	29, 4	32, 4	1680	4100
MN901025044	44x2, 5 (20kN)	2, 0	34, 1	37, 1	2280	5100
MN901025056	56x2, 5 (20kN)	2, 0	40, 1	43, 1	3030	6000
MN9010250423LWL	42x2. 5 AWG+3LWL (20kN)	2, 0	38, 7	41, 7	2940	4950
MN9010250450504	45x2, 5+(4x0, 5)C	2. 0	42. 9	45. 9	2830	5175

外护套:黄色; 线芯:白色数字编码
Outer: yellow; core: white digital coding

卷筒电缆

Reel cable



技术参数 Technical Data

	产品名 Type	REEL FLEXR
	型号描述 Type designation	reel cable
	产 品 标 准 及 认 证 Approvals/standards	DIN VDE 0250, Part 814; VDE-Reg.-Nr. 7519; GOST R
	应用范围 Application	Flexible reeling cable for very high mechanical stresses. Also for applications to which DIN VDE 0168 and 0118 apply: Open-cast and underground mining.
电气特性 Electrical parameters	额定电压 Rated voltage (U ₀ /U)	U ₀ / U = 3.6/6kV to 12/20kV
	交流环境使用许用电压 Maximum permissible operating voltage in AC systems	U ₀ / U = 0.7kv to 29 kV
	交流耐压测试 AC test voltage	
	动力线芯 Power cores	3.5-30kv kV, 5 min
	控制线芯 Control cores	1.5-30 kV, 5 min
	载 流 量 Current-carrying capacity	According to DIN VDE 0298, Part4
	总线运用 Bus capatibility	with special elements: ASI-Bus, Profibus, CAN-Bus, Industrial Ethernet alternativ: Fibre optics for transmitting all bus protocols
	电磁兼容性 EMC	Assured as result of special cable design
热学特性 Thermal parameters	使用的环境温度 Ambient temperature	
	移动运用 Fully flexible operation	(- 35 ° to + 80 °)
	固定安装 Fixed installation	(- 50 ° to + 80 °)
	许用导线温度 Maximum permissible operating temperature of the conductor	90 °
	短路时导体温度 Short-circuit temperature of the conductor	250 °

机械特性 Mechanical parameters	抗拉力 Tensile load	Up to 30 N/mm2
	最大许用扭转 Torsional stresses	(+/-50° /m)
	最小弯曲半径 Minimum bending radii	According to DIN VDE 0298, Part 3
	S 型交变转向最小间距 Minimum distance with S-type directional changes	20 x D
	运行速度 Travel speed	
	大车卷盘卷筒运用 Gantry (reeling operation)	No restriction. It is recommended to consult the manufacturer for speeds beyond 240m/min
	其他附加测试 Additional tests	Reserved bending test, roller bending test, torsional stress test
化学特性 Chemical parameters	耐油性 Resistance to oil	DIN VDE 0473, Part 811-2-1, Para. 10
	耐气候性 Weather resistance	Unrestricted use outdoors and indoors, resistant to ozone, UV and moisture
	耐水性 water compatibility	Given and verified in long-term tests

圆形卷盘电缆
Round reel cable

常规型号 standard model

GL-REEL0.6/1kV

物料编号	芯数 x 截面积 n x mm ²	导体外径 mm	电缆最小外径 mm	电缆最大外径 mm	电缆重量 kg/km	最大拉力 N
MN9000004005	5x4	3.0	17.4	19.4	430	600
MN9000006005	5x6	3.6	19.0	21.0	690	900
MN9000010005	5x10	4.6	23.4	25.4	1080	1500
MN9000016005	5x16	5.6	26.1	29.1	1500	2400
MN9000004004	4x4	3.0	16.0	18.0	455	480
MN9000006004	4x6	3.6	17.4	19.4	575	720
MN9000010004	4x10	4.6	21.6	23.6	905	1200
MN9000016004	4x16	5.6	23.7	26.7	1240	1920
MN90003503016/3	3x35+3x16/3	8.4/3.5	28.5	31.5	2160	3150
MN90005003025/3	3x50+3x25/3	10.3/4.2	34.4	37.4	2850	4500
MN90007003035/3	3x70+3x35/3	12.0/5.0	39.7	42.7	3920	6300
MN90009503050/3	3x95+3x50/3	14.0/6.0	44.3	47.3	4960	8550
MN90012003070/3	3x120+3x70/3	15.8/7.2	51.0	55.0	6630	10800
MN90015003070/3	3x150+3x70/3	17.5/7.2	53.9	57.9	7560	13500
MN90018503095/3	3x185+3x95/3	19.4/8.1	58.9	62.9	9310	16650
MN90024003120/3	3x240+3x120/3	22.5/9.3	67.4	71.4	12200	21600
MN9000105004	4x1.5	1.6	12.2	13.8	240	180
MN9000105005	5x1.5	1.6	13.0	14.6	280	225
MN9000105007	7x1.5	1.6	15.2	17.2	385	315
MN9000105012	12x1.5	1.6	21.4	23.4	710	540
MN9000105018	18x1.5	1.6	21.3	23.3	760	810
MN9000105024	24x1.5	1.6	23.8	26.8	990	1080
MN9000105030	30x1.5	1.6	26.6	29.6	1220	1350
MN9000105036	36x1.5	1.6	26.5	29.5	1260	1620
MN9000600005PF	5*6+profinet	3.6	22.5	23.6	770	900
MN9001000005PF	5*10+profinet	4.6	24.5	25.7	1090	1500

常规型号 standard model

GL-REEL 6/10kV

物料编号	芯数 x 截面积 nxmm²	导体外径 mm	电缆最 小外径 mm	电缆最 大外径 mm	电缆重量 kg/km	最大拉力 N
MN9050250325/3-10	3x25+3x25/3	7, 1/4, 2	37, 8	40, 8	2410	1500 (2250)
MN9050350325/3-10	3x35+3x25/3	8, 3/4, 2	40, 9	43, 9	2880	2100 (3150)
MN9050350335/3-10	3x35+3x35/3	8, 3/5, 0	40, 9	43, 9	2880	2100 (3150)
MN9050500325/3-10	3x50+3x25/3	9, 9/4, 2	43, 7	46, 7	3480	3000 (4500)
MN9050700335/3-10	3x70+3x50/3	11, 8/5, 9	47, 7	50, 7	4570	4200 (6300)
MN9050950350/3-10	3x95+3x50/3	13, 8/5, 9	52, 8	56, 8	5710	5700 (8550)
MN9051200370/3-10	3x120+3x70/3	15, 4/7, 0	56, 2	60, 2	6830	7200 (10800)
MN9051500370/3-10	3x150+3x70/3	17, 2/7, 0	61, 5	65, 5	8180	9000 (13500)
MN9051850395/3-10	3x185+3x95/3	19, 0/8, 0	65, 3	69, 3	9660	11100 (16650)
MN90524003120/3-10	3x240+3x120/3	21, 8/9, 0	73, 8	77, 8	12310	14400 (21600)
MN90530003150/3-10	3x300+3x150/3	24. 4/10. 0	79, 5	83, 5	14780	18000 (27000)
MN9060250325/26LWL-10	3x25+2x25/2+6LWL	7, 1/4, 2	40, 7	43, 4	2680	1500 (2250)
MN9060350325/26LWL-10	3x35+2x25/2+6LWL	8, 3/4, 2	42, 7	46, 0	3150	2100 (3150)
MN9060500325/26LWL-10	3x50+2x25/2+6LWL	9, 9/4, 2	46, 1	49, 4	3840	3000 (4500)
MN9060700335/26LWL-10	3x70+2x35/2+6LWL	11, 8/5, 0	51, 1	48, 9	4240	4200 (6300)
MN9060950350/26LWL-10	3x95+2x50/2+6LWL	13, 8/5, 9	56, 1	62, 5	6490	5700 (8550)
MN9061200370/26LWL-10	3x120+2x70/2+6LWL	15, 4/7, 0	60, 9	67, 8	8010	7200 (10800)
MN9061500370/26LWL-10	3x150+3x70/2+6LWL	17, 2/7, 0	64, 8	71, 7	9240	9000 (13500)
MN9061850395/26LWL-10	3x185+2x95/2+6LWL	19, 1/8, 0	69, 3	75, 6	10750	11100 (16650)
MN90624003120/26LWL-10	3x240+2x120/2+6LWL	21, 8/9, 0	76, 7	83, 4	13640	14400 (21600)

Flat reel cable

常规型号 standard model

GL-REEL 0.6/1kV

物料编号	芯数 x 截面积 nxmm ²	导体外径 mm	电缆最 小外径 mm	电缆最 大外径 mm	电缆重量 kg/km	最大拉力 N
MN6450601103	3x10+1x6	4.2	9.5x44	10.5x46	790	600
MN6451001163	3x16+1x10	5.4	11.2x50	13.2x52	1100	960
MN6451601253	3x25+1x16	6.6	13.2x56	14.2x57	1500	6000
MN6451601253	3x35+1x16	8.2	15.2x63	17.6x65	2000	1500
MN6452501503	3x50+1x25	9.7	18.2x73	19.5x75	2800	2100
MN6453501703	3x70+1x35	11.4	21.2x83	22.8x85	3700	3000
MN6455001953	3x95+1x50	13.1	25.5x97	27.4x98	5200	5700
MN64570011203	3x120+1x70	15.0	28.5x107	29.3x109	6500	6450
MN64595011503	3x150+1x95	16.9	31.5x116	33.1x118	7850	8200
MN64595011853	3x185+1x95	18.3	35x126	36x128	9500	9750
MN645120012403	3x240+1x120	20.5	37x137	38x139	11500	10000

常规型号 standard model

GL-REEL 6/10kV

物料编号	芯数 x 截面积 nxmm ²	导体外径 mm	电缆最 小外径 mm	电缆最 大外径 mm	电缆重量 kg/km	最大拉力 N
MN9040350325/3E-10	3x35+3x25/3E	8,2	25,5x68,2	28,5x72,2	3250	1575
MN9040500325/3E-10	3x50+3x25/E	9,7	28,0x74,1	31,0x78,1	3980	2250
MN9040700335/3E-10	3x70+3x35/3E	11,4	29,7x79,2	32,7x83,2	4870	3150
MN9040950350/3E-10	3x95+3x50/3E	13,1	31,7x84,7	34,7x89,7	5920	4275
MN9041200370/3E-10	3x120+3x70/3E	15,0	35,1x92,9	38,1x97,9	7420	5400
MN9040350325/4E6LWL-10	3x35+4x25/4E+1x(6LWL)	8,2	25,3x86,7	28,3x91,7	3870	1575
MN9040500325/4E6LWL-10	3x50+4x25/4E+1x(6LWL)	9,7	27,8x94,1	30,8x99,1	4730	2250
MN9040700335/4E6LWL-10	3x70+4x35/4E+1x(6LWL)	11,4	29,5x100,9	32,5x105,9	5800	3150
MN9040950350/4E6LWL-1	3x95+4x50/4E+1x(6LWL)	13,1	31,4x108,5	34,4x113,5	6940	4275

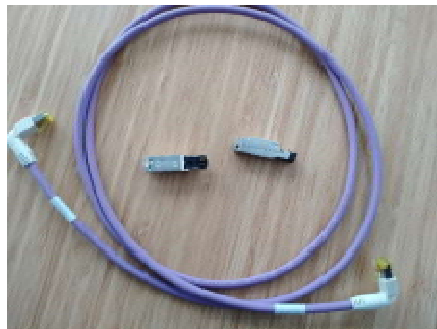
Assembling cable

可定制任意长度的各种类型接口的产品

Can customize any length of various types of interface products



重载连接线(称重台电机)
Heavy-duty connecting wire
(weighing station motor)



CAT5e 90° 弯角千兆网线(方向可选)
CAT5E 90 corner gigabit cable
(Direction is optional)



工业用 485 通讯线
Industrial 485



伺服电机编码器线(带绝对值电池)
Servo motor encoder cable
(With an absolute value battery)



伺服电机编码器线(拖链使用)
Servo motor encoder cable
(Drag chain use)



DEVICENET 通信电缆
DEVICENET cable



伺服电机动动力线(拖链使用)
SERVO motor power cable
(Drag chain use)



伺服电机编码器线(固定敷设用) 伺服电机动动力线
Servo motor encoder cable
(Fixed laying)



SERVO motor power cable

簧驱动卷筒

Spring driven reel



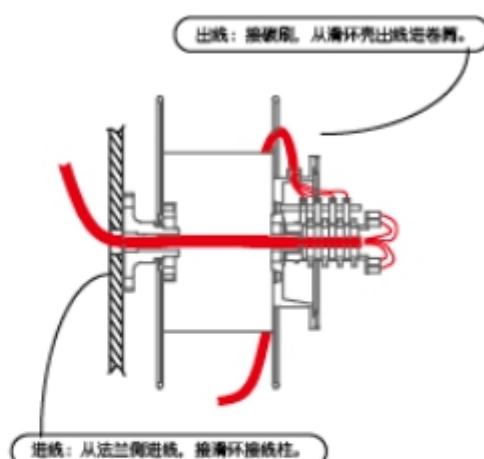
弹簧卷筒的概述

基本介绍

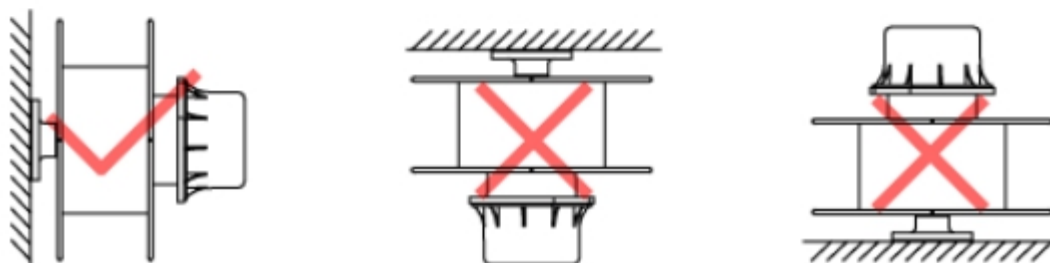
弹簧电缆卷筒装于各类移动设备自动收放电缆用的。

主要用于起重机和物料搬运设备；例如：门式起重机、电梯、挖掘机、移动式起重机、运输车等。

这些机器主要基于轨道上运行并直线移动。因此卷筒可以分为水平和垂直应用，稳定地将电力和控制信号的传输到设备上。



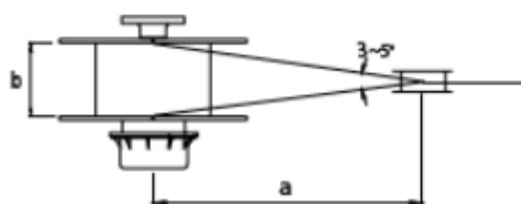
卷筒安装方式



导轮安装方式



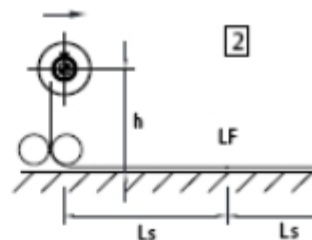
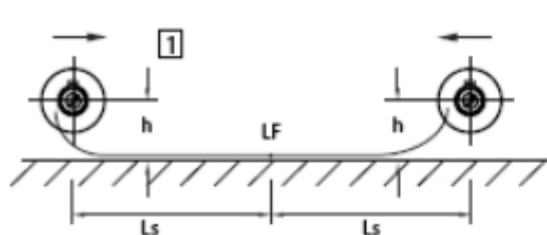
安装距离



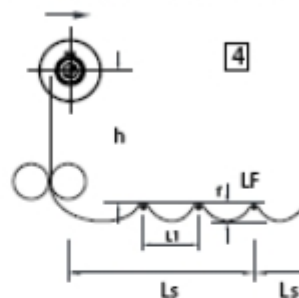
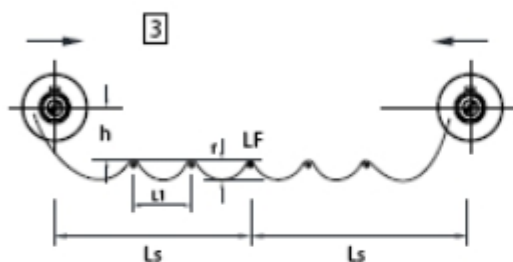
卷筒宽度 b(mm)	偏离角度 3° a(mm)	偏离角度 5° a(mm)
70	700	400
110	1050	650
140	1300	800
180	1700	1050
220	2100	1250
280	2600	1630

电缆卷筒应用方式

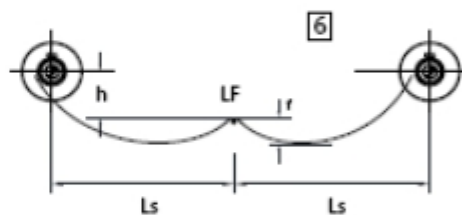
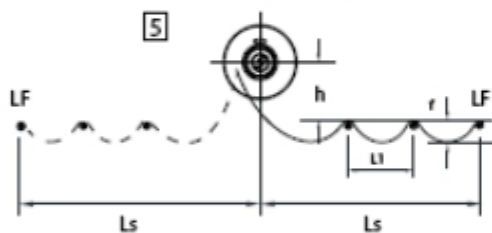
- 卷筒水平移动应用，电缆拉出平铺在连续的地面上。



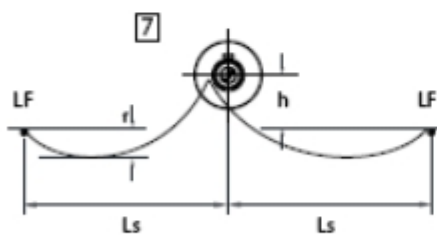
- 卷筒水平移动应用，电缆用支撑辊支撑 ($L1 < 1m$) 或者光滑滚轮支撑 ($L1 = 1m$ 至 $3m$, 取决于电缆尺寸)。



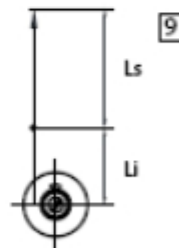
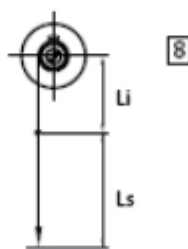
- 卷筒固定应用，电缆安装在移动端，可向两边移动，拉出的电缆支撑辊支撑 ($L1 < 1m$) 或者光滑滚轮支撑 ($L1 = 1m$ 至 $3m$, 取决于电缆尺寸)。这种方式并不推荐！



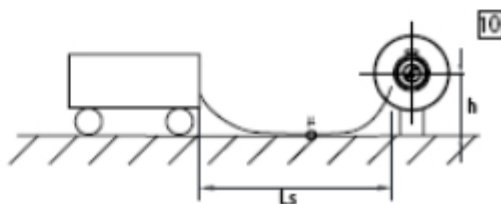
- 水平电缆悬空应用，仅适合短行程工况，下垂值 f 需要选型计算出。一般 f 最大值为 L 的 10%。



- 卷筒垂直应用，可以分为电缆向上出线 and 电缆向下出线。



- 卷筒固定安装，电缆会拖地，该应用需要考虑地面的摩擦系数。

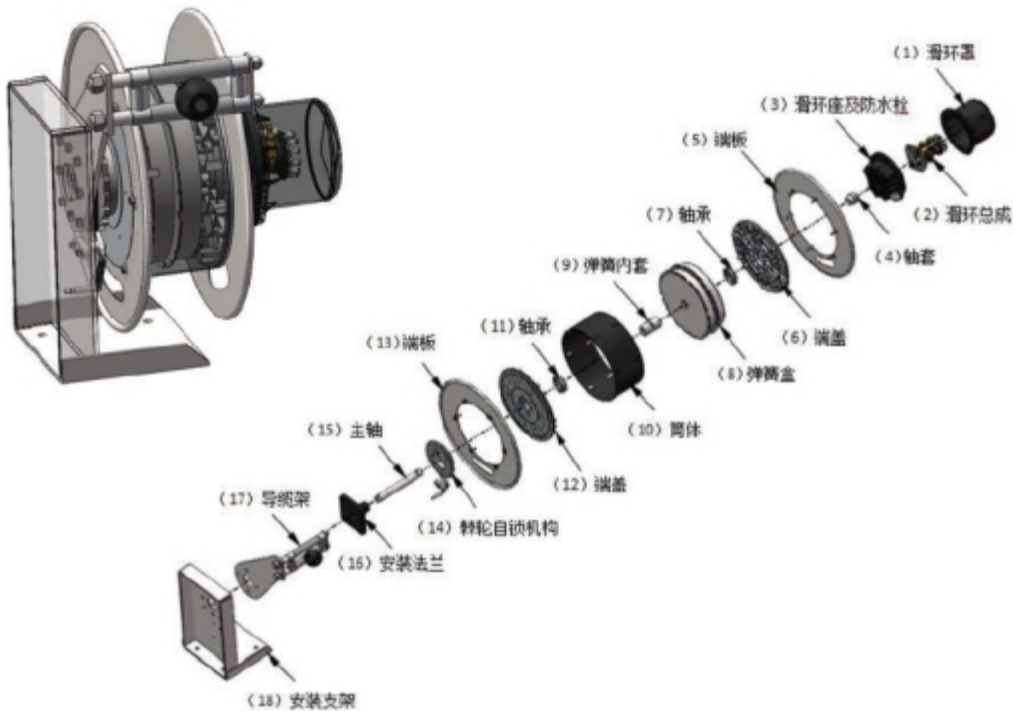


L_s = 卷筒行程 / 实际卷绕长度
 h = 卷筒安装高度 (参考示意图, 应用不同定义有所区别)
 LF = 供电位置

$L1$ = 支撑间距 (参考示意图所示)
 r = 下垂距离 (仅对应用 3,4,5,6,7)
 Li = 悬空距离 (仅对垂直应用 8,9)

结构:

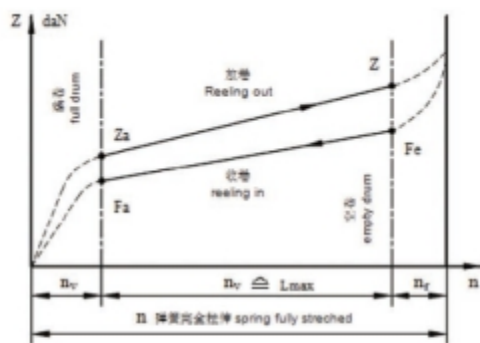
Structure:



性能 Performance:

弹簧采用特殊的弹簧钢制作,其使用寿命可达 10 万次以, 适合于恶劣使用环境, 工作时扭矩线性好, 确保电缆的使用寿命, 其工作特性如下:

The spring is made of special spring steel, its service life can reach more than 100,000 times, it is suitable for the bad service environment, the Torque is linear when working, and it ensures the service life of the cable, Its working characteristics:



$L_{\max}$ =最大卷取电缆长度

n_a =弹簧工作时允许的最大转动圈数

n_v =弹簧预紧力必须的转动圈数

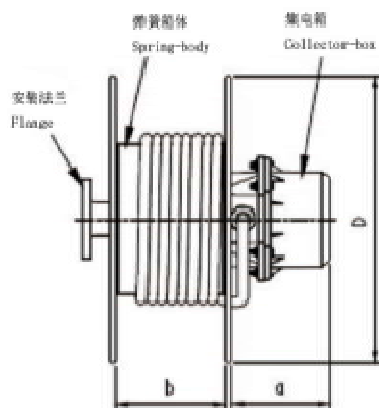
n_r =弹簧保留的转动圈数

F_a =完全缠绕电缆时的拉力

F_e =电缆完全放出时回收的张力

Z =放出电缆时所需的拉力

SH型外形图 (Shape)



S40H 系列



S40M 系列



技术参数 Technical parameter :

卷绕速度 Winding speed:

水平卷绕 Horizontal winding 63m/min 垂直卷绕 vertical winging 30m/min

卷绕长度 winding length:

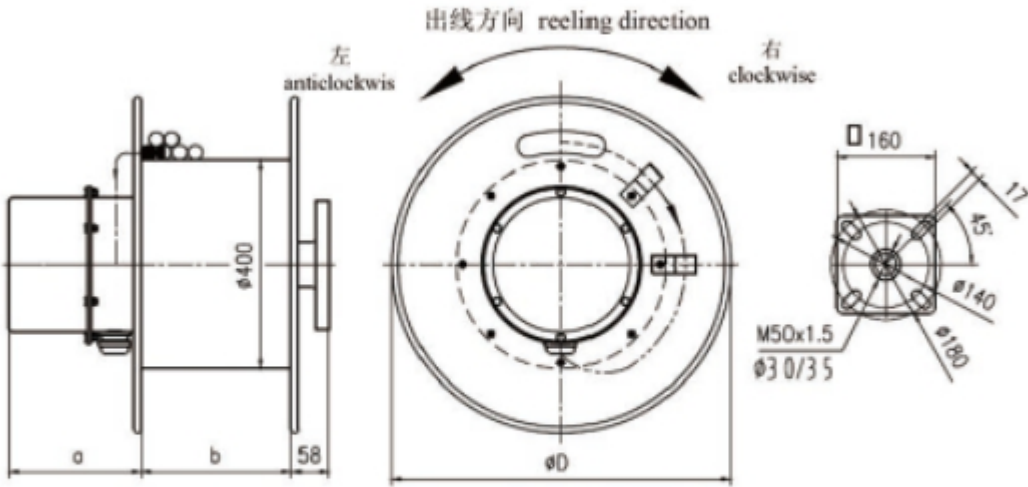
水平卷绕 Horizontal winding 60m 垂直卷绕 vertical winging 30m

电缆参数 cable parameter: 外径 outside MAX Ø35mm, 重量 weight MAX 1.6kg/m

电气参数 Electrical parameter: Vmax 500v Imax 100A

防护等级 Protection level: IP54

S40H 型选型表
S40H type Selection Tables for Reels

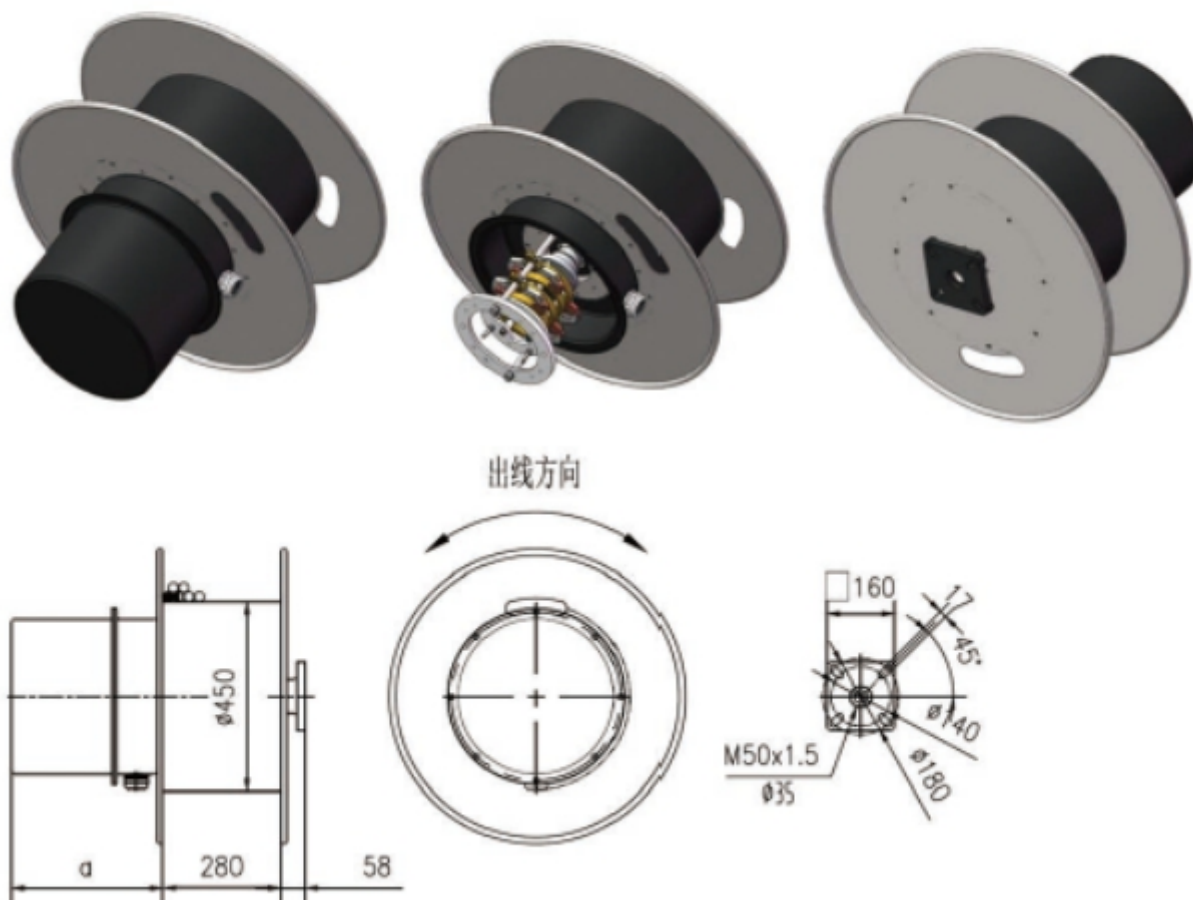


Application: A Vertical D : Horizontal and Vertical Retrieval

电缆 Cable	卷取 方式	电缆长度 Lw/Li (m)	卷筒型号 Reel type	D (mm)	a (mm)	b (mm)	滑环箱 Slipring- body	法兰 Flange type
24*1.5mm ² 19.8mm 0.603kg/m	A	16/1.5	S40H5528-0524-1A	550	280	280	2	2、4
	D	16/1.5						
	A	24/1.5	S40H5528-0524-2S	550	280	280	2	2、4
	D	36/1.5	S40H6328-0524-2S	630	280	280	2	2、4
	A	36/1.5	S40H6334-0524-2SP	630	280	340	2	2、4
	D	58/1.5	S40H6328-0524-3S	630	280	280	2	2、4
30*1.5mm ² 25mm 0.893kg/m	A	15/1.5	S40H5528-0530-1A	550	300	280	3	2、4
	D	18/1.5						
	A	18/1.5	S40H6328-0530-2P	630	300	280	3	2、4
	D	36/1.5	S40H7028-0530-2S	700	300	280	3	2、4
	A	36/1.5	S40H6334-0530-2SP	630	300	340	3	2、4
	D	64/1.5	S40H7028-0530-3S	700	300	280	3	2、4
36*1.5mm ² 24.5mm 0.995kg/m	A	13/1.5	S40H5528-0536-1A	550	320	280	3	2、4
	D	18/1.5						
	A	18/1.5	S40H6328-0536-2P	630	320	280	3	2、4
	D	40/1.5	S40H7028-0536-2S	700	320	280	3	2、4
	A	30/1.5	S40H6334-0536-2SP	630	320	340	3	2、4
	D	60/1.5	S40H7028-0536-3S	700	320	280	3	2、4
42*1.5mm ² 30mm 1.417kg/m	A	10/1.5	S40H5528-0542-1A	550	350	280	3	2、4
	D	10/1.5						
	D	18/1.5	S40H6328-0542-1A	630	350	280	3	2、4
	A	18/1.5	S40H6328-0542-2P	630	350	280	3	2、4
	D	42/1.5	S40H8028-0542-2S	800	350	280	3	2、4
	D	60/1.5	S40H8028-0542-3S	800	350	280	3	2、4

电缆 Cable	卷取 方式	电缆长度 Lw/Li (m)	卷筒型号 Reel type	D (mm)	a (mm)	b (mm)	滑环箱 Slipring- body	法兰 Flange type
24*2.5mm ² 22.5mm 0.875kg/m	A	15/1.5	S40H5528-0524-1A	550	280	280	3	2、4
	D	18/1.5						
	A	18/1.5	S40H6328-0524-2P	630	280	280	3	2、4
	D	35/1.5	S40H6328-0524-2S	630	280	280	3	2、4
	A	32/1.5	S40H6334-0524-2SP	630	280	340	3	2、4
	D	62/1.5	S40H7028-0524-3S	700	280	280	3	2、4
30*2.5mm ² 29mm 1.306kg/m	A	10/1.5	S40H5528-0530-1A	550	300	280	3	2、4
	D	10/1.5						
	D	19/1.5	S40H6328-0530-1A	630	300	280	3	2、4
	A	19/1.5	S40H6328-0530-2P	630	300	280	3	2、4
	D	41/1.5	S40H7028-0530-2S	700	300	280	3	2、4
	A	21/1.5	S40H6334-0530-2SP	630	300	340	3	2、4
36*2.5mm ² 31.2mm 1.635kg/m	A	9/1.5	S40H5528-0536-1A	550	320	280	3	2、4
	D	9/1.5						
	D	19/1.5	S40H6328-0536-1A	630	320	280	3	2、4
	A	16/1.5	S40H6328-0536-2P	630	320	280	3	2、4
	D	42/1.5	S40H8028-0536-2S	800	320	280	3	2、4
	D	60/1.5	S40H8028-0536-3S	800	320	280	3	2、4
5*10mm ² 21.3mm 0.76kg/m	A	15/1.5	S40H5528-0405-1A	550	300	280	3	2、4
	D	18/1.5						
	D	34/1.5	S40H6328-0405-2S	630	300	280	3	2、4
	A	34/1.5	S40H6328-0405-2SP	630	300	340	3	2、4
	D	60/1.5	S40H7028-0405-3S	700	300	280	3	2、4
4*16mm ² 24mm 1.104kg/m	A	14/1.5	S40H5528-0404-1A	550	280	280	3	2、4
	D	18/1.5						
	A	18/1.5	S40H6328-0404-2P	630	280	280	3	2、4
	D	36/1.5	S40H7028-0404-2S	700	280	280	3	2、4
	A	26/1.5	S40H6334-0404-2SP	630	280	340	3	2、4
	D	60/1.5	S40H7028-0404-3S	700	280	280	3	2、4
5*16mm ² 26mm 1.181kg/m	A	13/1.5	S40H6328-0405-1A	630	300	280	3	2、4
	D	18/1.5						
	A	18/1.5	S40H6328-0405-2P	630	300	280	3	2、4
	D	39/1.5	S40H7028-0405-2S	700	300	280	3	2、4
	A	24/1.5	S40H6334-0405-2SP	630	300	340	3	2、4
	D	64/1.5	S40H8028-0405-3S	800	300	280	3	2、4
4*25mm ² 28.9mm 1.623kg/m	A	9/1.5	S40H5528-1104-1A	550	360	280	4	2、4
	D	9/1.5						
	D	18/1.5	S40H6328-1104-1A	630	360	280	4	2、4
	A	16/1.5	S40H6328-1104-2P	630	360	280	4	2、4
	D	40/1.5	S40H7028-1104-2S	700	360	280	4	2、4
	D	62/1.5	S40H8028-1104-3S	800	360	280	4	2、4

S45H 系列



技术参数 Technical parameter :

卷绕速度 Winding speed:

水平卷绕 Horizontal winding 63m/min 垂直卷绕 vertical winging 30m/min

卷绕长度 winding length:

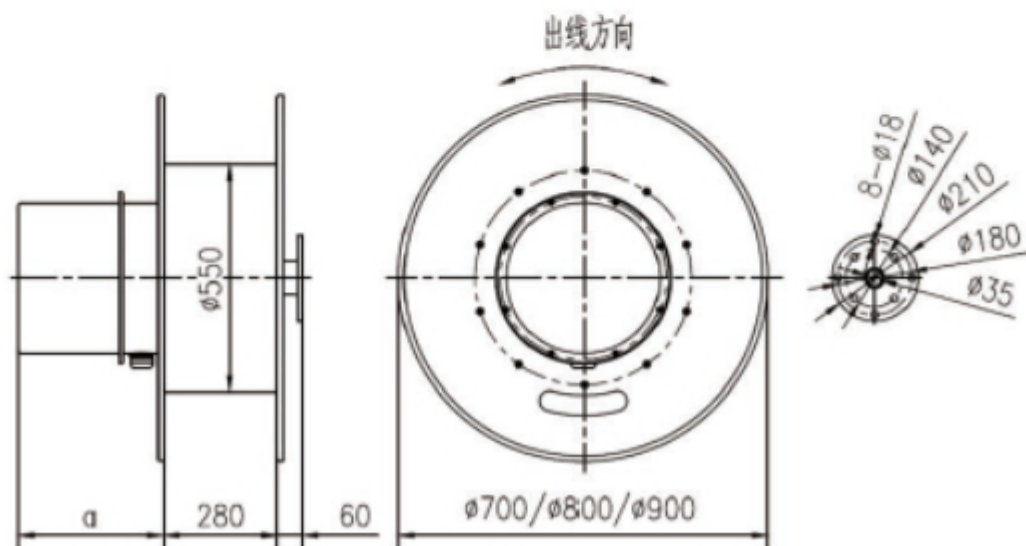
水平卷绕 Horizontal winding 87m 垂直卷绕 vertical winging 38m

电缆参数 cable parameter: 外径 outside MAX $\phi 35\text{mm}$, 重量 weight MAX 1.6kg/m

电气参数 Electrical parameter: V_{max} 500v I_{max} 150A

防护等级 Protection level: IP54

S55H 系列



技术参数 Technical parameter :

卷绕速度 Winding speed:

水平卷绕 Horizontal winding 63m/min 垂直卷绕 vertical winging 30m/min

卷绕长度 winding length:

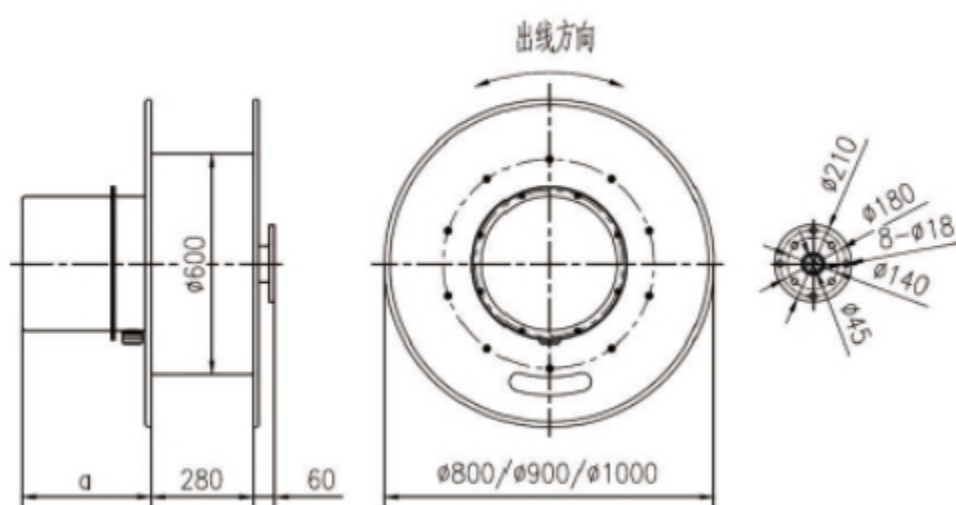
水平卷绕 Horizontal winding 98m 垂直卷绕 vertical winging 38m

电缆参数 cable parameter: 外径 outside MAX $\phi 46\text{mm}$, 重量 weight MAX 3.6kg/m

电气参数 Electrical parameter: $V_{\text{max}} 500\text{v}$ $I_{\text{max}} 200\text{A}$

防护等级 Protection level: IP54

S60H 系列



技术参数 Technical parameter :

卷绕速度 Winding speed:

水平卷绕 Horizontal winding 63m/min 垂直卷绕 vertical winging 30m/min

卷绕长度 winding length:

水平卷绕 Horizontal winding 118m 垂直卷绕 vertical winging 39m

电缆参数 cable parameter: 外径 outside MAX Ø46mm, 重量 weight MAX 3.6kg/m

电气参数 Electrical parameter: Vmax 500v Imax 200A

防护等级 Protection level: IP54

根据德国标准 VDE 0298 P. 4

电缆载流量修正系数-环境温度不等于 30° C 时 Current carrying capacity correction factor-when ambient temperature is not equal to 30 ° C

环境温度 Ambient temperature	10	20	25	35	40	45	50	55	60	65	70	75
修正系数 Correction factor	1.18	1.1	1.05	0.95	0.89	0.84	0.77	0.71	0.63	0.55	0.45	0.32

电缆载流量修正系数-电缆超过三芯时 Current carrying capacity correction factor-When the cable exceeds three cores

电缆芯数 cable cores	5	7	10	14	19	24	40
修正系数 Correction factor	1.18	1.1	1.05	0.95	0.89	0.84	0.77

电缆载流量修正系数-缠绕层数 Current carrying capacity correction factor-Number of winding layers

缠绕层数 winding layers	1	2	3	4	5
修正系数 Correction factor	0.76	0.58	0.47	0.4	0.38

嘉兴亘联自动化系统有限公司

JIAXING GENLIAN AUTOMATIC SYSTEMCO.,LTD

地址：浙江省嘉兴市平湖市经济开发区新兴二路 988 号

ADD:No.988 Xinxing two Road, Pinghu Economic Development Zone, Jiaxing City, Zhejiang

电话(TEL)：0573-85709118 传真(FAX)：0573-85709118

邮编(P. C)：314200 网址(HTTP)：WWW.GENLIAN.NET