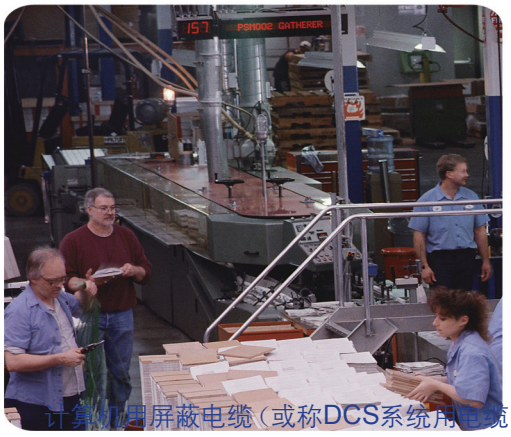
计算机电缆正确选型 计算机屏蔽电缆

计算机电缆
Computer Cable





计算机用屏蔽电缆（或称DCS系统用电缆）
Shielding Cable for Computer Application(Cable for DCS System Application)
本安计算机用屏蔽电缆（或称本安DCS系统用电缆）
Shielding Cable for Intrinsic Safety Computer Application(Cable for Intrinsic Safety DCS System)

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计算机用屏蔽电缆(或称DCS系统用电缆)
Computer Shielded Cable (Cable for DSC system)

本产品适用于电子计算机网络及控制系统，或抗干扰性能要求较高的检测装置和仪器仪表的连接。

It is used as connection cable of inspection devices and instruments with high demand on interference resistant performance in computer network and control system.

一、生产执行标准：

Q/TK.J.04.030-2004参照采用英国BS5308标准。

Executive standard:

Q/TK.J.04.030-2004 or BS5308 standard for reference

二、使用特性

1、交流额定电压U0/U：300/500V；电缆导体长期允许最高工作温度：聚氯乙烯绝缘分70℃、105℃两种；聚乙烯绝缘为70℃；交联聚乙烯绝缘为90℃（绝缘交联类型可分为硅烷交联和辐照交联）。

2、最低环境温度：固定敷设-40℃；非固定敷设-15℃。安装敷设时环境温度：不低于0℃。

3、电缆允许最小弯曲半径：金属带绕包屏蔽或钢丝、钢带铠装电缆不小于电缆外径的12倍；非铠装软电缆或编织屏蔽电缆不小于电缆外径的6倍。

Performance for Usage

1: AC rated voltageU0/U：300/500V. Long term working temperature of cable conductor is 70℃ & 105℃ for cable with PVC insulation, 70℃ for cable with PE insulation and 90℃ for cable with XLPE insulation.(XLPE insulation includes silane XLPE & irradiation XLPE insulation.)

2: Min. environment temperature is -40℃ for fixed laying and -15℃ for non-fixed laying. Environment temperature shall be no less than 0℃ for installing.

3: Min.bending radius allowed by cable is no less than 6 times that of cable OD for non-armored soft cable or braided shielding cable and 12 times that of cable OD for cable with metallic tape wrapped shielding or steel wire/steel tape armor.

三、基本型号及名称

Basic Type and Description

序号No.	型号Type	电缆名称Description
1	DJYVP	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织总屏蔽计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided general shielding
2	DJYVPR	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织总屏蔽计算机软电缆 Computer soft cable with Cu core, PE insulation, PVC sheath, copper wire braided general shielding
3	DJYPV	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏蔽计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual shielding
4	DJYPVR	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏蔽计算机软电缆 Computer soft cable with Cu core, PE insulation, PVC sheath, copper wire braided individual shielding
5	DJYPVP	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided general & individual shielding
6	DJYPVPR	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏计算机软电缆 Computer soft cable with Cu core, PE insulation, PVC sheath, copper wire braided general & individual shielding
7	DJYVP2	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包总屏蔽计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping general shielding
8	DJYVP2R	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包总屏蔽计算机软电缆 Computer soft cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping general shielding
9	DJYP2V	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏蔽计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping individual shielding
10	DJYP2VR	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏蔽计算机软电缆 Computer soft cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping individual shielding

11	DJYP2VP2	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping individual & general shielding
12	DJYP2VP2R	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏计算机软电缆 Computer soft cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping individual & general shielding
13	DJYVP3	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包总屏蔽计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping general shielding
14	DJYVP3R	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包总屏蔽计算机软电缆 Computer soft cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping general shielding
15	DJYP3V	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏蔽计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping individual shielding
16	DJYP3VR	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏蔽计算机软电缆 Computer soft cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping individual shielding
17	DJYP3VP3	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping individual & general shielding
18	DJYP3VP3R	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏计算机软电缆 Computer soft cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping individual & general shielding
19	DJYVP22	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织总屏蔽钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided general shielding, steel tape armor
20	DJYPV22	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏蔽钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual shielding, steel tape armor
21	DJYPVP22	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual & general shielding, steel tape armor
22	DJYVP2-22	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包总屏蔽钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, general shielding, steel tape armor
23	DJYP2V22	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏蔽钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, individual shielding, steel tape armor
24	DJYP2VP2-22	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, individual & general shielding, steel tape armor
25	DJYVP3-22	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包总屏蔽钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, general shielding, steel tape armor
26	DJYP3V22	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏蔽钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, individual shielding, steel tape armor

27	DJYP3VP3-22	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏钢带铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, individual & general shielding, steel tape armor
28	DJYVP32	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织总屏蔽钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided general shielding, steel wire armor
29	DJYPV32	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏蔽钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual shielding, steel wire armor
30	DJYPVP32	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper wire braided individual & general shielding, steel wire armor
31	DJYVP2-32	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包总屏蔽钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, general shielding, steel wire armor
32	DJYP2V32	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏蔽钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, individual shielding, steel wire armor
33	DJYP2VP2-32	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapping, general & individual shielding, steel wire armor
34	DJYVP3-32	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包总屏蔽钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, general shielding, steel wire armor
35	DJYP3V32	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏蔽钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, individual shielding, steel wire armor
36	DJYP3VP3-32	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏钢丝铠装计算机电缆 Computer cable with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapping, general & individual shielding, steel wire armor

四、型号名称及含义

Type, Description and Definition

举例：DJ Y P3 V P3 – 32型

- 32型 — 钢丝缠绕铠装聚氯乙烯护套 Steel wire winding armor PVC outer sheath
- P3 — 铝塑复合带绕包总屏蔽 Aluminum-plastic compound tape wrapped general shielding
- V — 聚氯乙烯内护层 PVC inner sheath
- P3 — 铝塑复合带绕包分屏蔽 Aluminum-plastic compound tape wrapped individual shielding
- Y — 聚乙烯绝缘 PE insulation
- DJ — 计算机电缆系列代号 Series number of computer cable

绝缘或护套材料：Y—聚乙烯挤包绝缘或护套
V—聚氯乙烯挤包绝缘或护套
YJ—交联聚乙烯挤包绝缘

阻燃性能分：ZRA—A类阻燃（A类阻燃性能最佳）
ZRB—B类阻燃
ZRC、ZR—C类阻燃。
阻燃型电缆在基本型号前分别加“ZRA-”、“ZRB-”、“ZRC或ZR”表示即可。

Insulation or sheath material:
Y means PE extruded insulation or sheath
V means PVC extruded insulation or sheath
YJ means XLPE extruded insulation

Flame retardant performance category:
ZRA: category A (the best)
ZRB: category B
ZRC & ZR: category C
Prefix “ZRA-”、“ZRB-”、“ZRC or ZR” is added to the original type of flame retardant cable.

铠装结构：22—钢带铠装聚氯乙烯外护套
23—钢带铠装聚乙烯外护套
32—圆形镀锌低碳钢丝缠绕铠装聚氯乙烯外护套
33—圆形镀锌低碳钢丝缠绕铠装聚乙烯外护套
屏蔽材料：P—铜线编织
P1—镀锡铜线编织
P2—铜塑复合带绕包
P3—铝塑复合带绕包
导体种类：A—单根导体（型号中省略）
B—七根绞合导体（在规格后面加“B”表示）
R—多根绞合导体

Armor structure:
22 means steel tape armor, PVC outer sheath
23 means steel tape armor, PE outer sheath
32 means round galvanized low carbon steel wire wrapping, armor, PVC outer sheath
33 means round galvanized low carbon steel wire wrapping, armor, PE outer sheath
Shielding material:
P means copper wire braiding
P1 means tinned copper wire braiding
P2 means copper-plastic compound tape wrapping
P3 means aluminum- plastic compound tape wrapping
structure of conductor:
A means single conductor (omitted in type)
B means 7 stranded conductor (“B” shall be added after specification)
C means multi-stranded conductor

五、规格范围

对数：1~24对。
每对芯数：二芯(称二线组)或三芯(称三线组)。
导体截面：0.5mm2、0.75mm2、1.0mm2、1.5mm2、2.5mm2。

Specification Scope

Pair No.: 1~24 pairs
Core No. per pair: 2 cores (equal to 2 wire group) or 3 cores (equal to 3 wire group)
Cross section of conductor: 0.5mm2、0.75mm2、1.0mm2、1.5mm2、2.5mm2

六、主要技术参数

1、20℃导体直流电阻

Main Technical Parameter

DC Resistance of Conductor at 20℃

导体标称截面mm² Nominal cross section area	导体根数/单丝直径mm Pieces of conductor/diameter of single piece			20℃时导体直流电阻Ω/km DC resistance of conductor at 20℃	
	A	B	R	A、B	R
0.5	1/0.80	7/0.30	16/0.20	≤36.0	≤39.0
0.75	1/0.97	7/0.37	24/0.20	≤24.5	≤26.0
1.0	1/1.13	7/0.43	32/0.20	≤18.1	≤19.5
1.5	1/1.38	7/0.52	30/0.25	≤12.1	≤13.3
2.5	1/1.78	7/0.68	49/0.25	≤7.41	≤7.98

2、20℃绝缘电阻

Insulation Resistance at 20℃

性能项目 Performance item	PVC绝缘 PVC insulation	PE、XLPE绝缘 PE、XLPE insulation
20℃时绝缘电阻MΩ.km insulation resistance at 20℃	≥25	≥500

3、电缆应经受工频交流电压试验：2000V/1min绝缘不发生击穿，试验温度为环境温度。

Cable shall endure A.C. voltage test of 2000V under power frequency for 1min without puncture of insulation. And testing temperature is environment temperature.

七、电缆计算外径（供参考）

Calculated Outer Diameter of Cable (for reference)

对数×芯数×导体标称截面 mm² pair number* core number* nominal cross section	导体种类 Conductor category	电缆计算外径mm calculated outer diameter of cable			对数×芯数×导体标称截面 mm² pair number* core number* nominal cross section	导体种类 Conductor category	电缆计算外径mm calculated outer diameter of cable		
		DJYPV DJVPV DJYJPV	DJYVP DJVVP DJYJVP	DJYPVP DJVPVP DJYJPVP			DJYPV DJVPV DJYJPV	DJYVP DJVVP DJYJVP	DJYPVP DJVPVP DJYJPVP
1×2×0.5	A	6.5	6.5	—	8×2×1.5	A	20.0	19.0	20.4
1×2×0.75		7.2	7.2	—	8×2×2.5		23.4	22.4	23.9
1×2×1.0		7.8	7.8	—	10×2×0.5		15.6	15.0	16.2
1×2×1.5		8.5	8.5	—	10×2×0.75		19.6	18.5	20.1
1×2×2.5		9.7	9.7	—	10×2×1.0		20.9	19.8	21.4
2×2×0.5		9.2	9.0	9.8	10×2×1.5		22.2	21.1	22.7
2×2×0.75		11.0	10.5	11.5	10×2×2.5		26.2	25.1	26.7
2×2×1.0		11.7	11.4	12.2	12×2×0.5		16.5	15.8	17.1
2×2×1.5		12.8	12.1	13.3	12×2×0.75		20.6	19.4	21.1
2×2×2.5		15.0	14.7	15.5	12×2×1.0		22.0	20.8	22.5
3×2×0.5		10.0	9.8	10.6	12×2×1.5		23.4	22.2	23.9
3×2×0.75		12.1	11.6	13.0	12×2×2.5		27.6	26.4	28.1
3×2×1.0		13.3	12.8	13.8	14×2×0.5		17.2	16.4	18.4
3×2×1.5		14.1	13.6	14.6	14×2×0.75		21.5	20.3	22.0
3×2×2.5		16.5	16.0	17.0	14×2×1.0		23.0	21.8	23.5
4×2×0.5		10.9	10.6	11.5	14×2×1.5		24.5	23.3	25.0
4×2×0.75		13.5	13.0	14.0	14×2×2.5		29.5	27.7	30.0
4×2×1.0		14.4	13.9	14.9	16×2×0.5		18.9	18.0	19.5
4×2×1.5		15.3	14.7	15.8	16×2×0.75		23.1	21.6	23.6
4×2×2.5		18.5	17.4	19.0	16×2×1.0		24.7	23.2	25.2
5×2×0.5		11.5	11.1	12.1	16×2×1.5		26.3	24.8	26.8
5×2×0.75		14.4	13.6	14.9	16×2×2.5		31.7	30.2	32.2
5×2×1.0		15.4	14.6	15.9	(18)19×2×0.5		20.5	19.5	21.1
5×2×1.5		16.3	15.6	16.8	(18)19×2×0.75		25.1	23.4	25.6
5×2×2.5		19.8	19.1	20.3	(18)19×2×1.0		26.9	25.2	27.4
(6) 7×2×0.5		12.3	12.0	13.3	(18)19×2×1.5		29.2	26.9	29.7
(6) 7×2×0.75		15.0	14.2	15.5	(18)19×2×2.5		34.9	32.8	35.4
(6) 7×2×1.0		18.2	15.2	16.5	24×2×0.5		22.8	21.7	23.4
(6) 7×2×1.5		19.6	16.2	17.5	24×2×0.75		28.1	26.1	29.2
(6) 7×2×2.5		20.6	19.8	21.1	24×2×1.0		30.7	28.1	31.2
8×2×0.5		14.0	13.5	14.6	24×2×1.5		32.7	30.7	33.2
8×2×0.75		17.0	16.0	17.5	24×2×2.5		39.1	37.1	40.0
8×2×1.0		18.7	17.2	19.2	/		/	/	/

备注：①铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径约0.5mm范围。
②铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑。

Note: 1: Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.
2: Cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.

对数×芯数×导体标称截面 mm² pair number* core number* nominal cross section	导体种类 Conductor category	电缆计算外径mm calculated outer diameter of cable			对数×芯数×导体标称截面 mm² pair number* core number* nominal cross section	导体种类 Conductor category	电缆计算外径mm calculated outer diameter of cable		
		DJYPVR DJVPVR DJYJPVR	DJYVPR DJVVPR DJYJVPR	DJYPVPR DJVPVPR DJYJPVPR			DJYPVR DJVPVR DJYJPVR	DJYVPR DJVVPR DJYJVPR	DJYPVPR DJVPVPR DJYJPVPR
1×2×0.5	R	7.0	7.0	—	8×2×1.5	R	21.9	21.0	22.4
1×2×0.75		7.7	7.7	—	8×2×2.5		25.4	24.5	25.9
1×2×1.0		8.2	8.2	—	10×2×0.5		17.9	17.3	19.1
1×2×1.5		9.0	9.0	—	10×2×0.75		21.3	20.1	21.8
1×2×2.5		10.2	10.2	—	10×2×1.0		22.6	21.4	23.1
2×2×0.5		10.3	10.2	10.9	10×2×1.5		24.6	23.4	25.1
2×2×0.75		11.9	11.6	12.8	10×2×2.5		29.2	27.4	29.7
2×2×1.0		13.0	12.2	13.5	12×2×0.5		19.5	18.8	20.1
2×2×1.5		14.1	13.7	14.6	12×2×0.75		22.4	21.1	22.9
2×2×2.5		16.3	15.9	16.2	12×2×1.0		23.8	22.5	24.3
3×2×0.5		11.2	11.0	11.8	12×2×1.5		25.9	24.6	26.4
3×2×0.75		13.4	12.9	13.9	12×2×2.5		30.7	29.4	31.2
3×2×1.0		14.2	13.7	14.7	14×2×0.5		20.5	19.7	21.1
3×2×1.5		15.4	14.9	15.9	14×2×0.75		23.5	22.1	24.0
3×2×2.5		18.4	17.4	18.9	14×2×1.0		25.0	23.6	25.5
4×2×0.5		12.2	11.9	13.2	14×2×1.5		27.2	25.8	27.7
4×2×0.75		14.6	14.0	15.1	14×2×2.5		32.3	30.8	32.8
4×2×1.0		15.5	14.9	16.0	16×2×0.5		21.9	21.1	22.5
4×2×1.5		16.8	16.2	17.3	16×2×0.75		25.1	23.6	25.6
4×2×2.5		20.1	19.5	20.6	16×2×1.0		26.7	25.2	27.2
5×2×0.5		13.5	13.1	14.1	16×2×1.5		29.7	27.6	30.2
5×2×0.75		15.5	14.9	16.0	16×2×2.5		34.9	33.0	35.4
5×2×1.0		16.5	15.9	17.0	(18)19×2×0.5		23.8	22.9	24.4
5×2×1.5		18.5	17.3	19.0	(18)19×2×0.75		27.3	26.2	27.8
5×2×2.5		21.4	20.7	21.9	(18)19×2×1.0		29.7	27.9	30.2
(6) 7×2×0.5		14.5	14.1	15.1	(18)19×2×1.5		32.3	30.6	32.8
(6) 7×2×0.75		16.1	15.5	16.6	(18)19×2×2.5		38.0	36.2	38.5
(6) 7×2×1.0		17.1	16.5	17.6	24×2×0.5		26.6	25.5	27.2
(6) 7×2×1.5		19.2	18.5	19.7	24×2×0.75		31.2	29.2	31.7
(6) 7×2×2.5		22.2	21.5	22.7	24×2×1.0		33.2	31.2	33.7
8×2×0.5		15.9	15.5	16.5	24×2×1.5		36.6	34.6	37.1
8×2×0.75		19.0	18.1	19.5	24×2×2.5		43.0	41.0	43.5
8×2×1.0		20.2	19.3	20.7	/		/	/	/

备注：①铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径约0.5mm范围。
②铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑。
③B类导体的电缆外径略小于R类导体的电缆外径,约0.5~1mm范围内。

Note:
1: Outer diameter of cable awith copper (aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.
2: Cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.
3: Outer diameter of cable with conductor of category B is smaller by 0.5~1mm than that of category R.

对数×芯数×导体标称截面 mm² pair number* core number* nominal cross section	导体种类 Conductor category	电缆计算外径mm calculated outer diameter of cable			对数×芯数×导体标称截面 mm² pair number* core number* nominal cross section	导体种类 Conductor category	电缆计算外径mm calculated outer diameter of cable		
		DJYPV22 DJVPV22 DJYJPV22	DJYVP22 DJVVP22 DJYJVP22	DJYPVP22 DJVPVP22 DJYJPVP22			DJYPV22 DJVPV22 DJYJPV22	DJYVP22 DJVVP22 DJYJVP22	DJYPVP22 DJVPVP22 DJYJPVP22
1×2×0.5	A	10.4	10.4	—	8×2×1.5	A	22.5	22.0	23.4
1×2×0.75		10.8	10.8	—	8×2×2.5		26.8	25.4	27.3
1×2×1.0		11.3	11.3	—	10×2×0.5		21.1	19.9	21.6
1×2×1.5		11.8	11.8	—	10×2×0.75		22.6	21.5	23.1
1×2×2.5		13.1	13.1	—	10×2×1.0		23.9	22.8	24.4
2×2×0.5		13.7	12.8	14.2	10×2×1.5		25.2	24.1	25.7
2×2×0.75		14.4	14.0	14.9	10×2×2.5		30.2	29.1	30.7
2×2×1.0		15.1	14.8	15.6	12×2×0.5		22.0	20.7	22.5
2×2×1.5		15.8	15.5	16.3	12×2×0.75		23.6	22.4	24.1
2×2×2.5		18.6	18.3	19.1	12×2×1.0		25.0	23.8	25.5
3×2×0.5		14.6	13.6	15.1	12×2×1.5		26.8	25.2	27.3
3×2×0.75		15.5	15.0	16.0	12×2×2.5		31.6	30.4	32.6
3×2×1.0		16.3	15.8	16.8	14×2×0.5		22.9	21.5	23.4
3×2×1.5		17.1	16.6	17.6	14×2×0.75		24.5	23.3	25.0
3×2×2.5		20.1	19.6	20.6	14×2×1.0		26.0	24.8	26.9
4×2×0.5		15.5	14.4	16.0	14×2×1.5		27.9	26.7	28.4
4×2×0.75		16.5	16.0	17.0	14×2×2.5		33.4	31.7	33.9
4×2×1.0		17.4	16.9	18.5	16×2×0.5		24.2	22.7	24.7
4×2×1.5		18.9	18.3	19.4	16×2×0.75		26.1	24.6	27.0
4×2×2.5		21.5	21.0	22.0	16×2×1.0		28.1	26.2	29.2
5×2×0.5		16.4	15.2	16.9	16×2×1.5		30.3	28.2	30.8
5×2×0.75		17.4	16.6	18.5	16×2×2.5		36.0	34.5	36.5
5×2×1.0		19.0	17.6	19.5	(18)19×2×0.5		26.4	24.3	26.9
5×2×1.5		19.9	19.2	20.4	(18)19×2×0.75		29.1	26.8	29.6
5×2×2.5		22.8	22.1	23.3	(18)19×2×1.0		30.9	29.2	31.4
(6) 7×2×0.5		17.9	17.1	18.4	(18)19×2×1.5		33.1	30.9	33.6
(6) 7×2×0.75		18.6	17.2	19.1	(18)19×2×2.5		38.8	37.1	39.7
(6) 7×2×1.0		19.6	18.8	20.1	24×2×0.5		29.7	27.1	30.2
(6) 7×2×1.5		20.6	19.8	21.1	24×2×0.75		32.1	30.1	33.1
(6) 7×2×2.5		23.6	22.8	24.1	24×2×1.0		35.0	32.1	35.5
8×2×0.5		19.3	18.3	19.8	24×2×1.5		37.0	35.0	37.5
8×2×0.75		20.6	19.6	21.1	24×2×2.5		43.6	41.6	44.1
8×2×1.0		21.7	20.8	22.2	/		/	/	/

备注：①铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径约0.5mm范围。
②铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑。
③钢丝铠装型电缆外径在钢带铠装型电缆外径基础上增加1~1.5mm。

Note: 1: Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.
2: Cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.
3: Outer diameter of cable with steel wire armor is added by 1~1.5mm on the basis of that with steel tape armor.

对数×芯数×导体标称截面 mm² pair number* core number* nominal cross section	导体种类 Conductor category	电缆计算外径mm calculated outer diameter of cable			对数×芯数×导体标称截面 mm² pair number* core number* nominal cross section	导体种类 Conductor category	电缆计算外径mm calculated outer diameter of cable		
		DJYPV DJVPV DJYJPV	DJYVP DJVVP DJYJVP	DJYPVP DJVPVP DJYJPVP			DJYPV DJVPV DJYJPV	DJYVP DJVVP DJYJVP	DJYPVP DJVPVP DJYJPVP
1×3×0.5	A	6.8	6.8	—	8×3×1.5	A	22.0	21.0	22.5
1×3×0.75		7.56	7.5	—	8×3×2.5		25.7	24.7	26.2
1×3×1.0		8.1	8.1	—	10×3×0.5		19.9	18.6	20.4
1×3×1.5		8.8	8.8	—	10×3×0.75		21.8	20.6	22.5
1×3×2.5		10.0	10.0	—	10×3×1.0		23.3	22.0	23.8
2×3×0.5		10.9	10.5	11.4	10×3×1.5		25.1	23.8	25.6
2×3×0.75		11.9	11.5	12.8	10×3×2.5		30.0	28.1	30.5
2×3×1.0		13.1	12.7	13.6	12×3×0.5		20.9	19.5	21.4
2×3×1.5		14.0	13.6	14.5	12×3×0.75		22.8	21.5	23.3
2×3×2.5		16.3	15.9	16.8	12×3×1.0		24.4	23.0	24.9
3×3×0.5		12.3	11.3	12.8	12×3×1.5		26.3	24.9	26.8
3×3×0.75		13.4	12.8	13.9	12×3×2.5		31.4	30.1	31.9
3×3×1.0		14.3	13.6	14.8	14×3×0.5		21.8	20.3	22.3
3×3×1.5		15.3	14.7	15.8	14×3×0.75		23.9	22.4	24.4
3×3×2.5		18.4	17.2	18.9	14×3×1.0		25.5	24.0	26.0
4×3×0.5		13.2	12.6	13.7	14×3×1.5		27.5	26.0	28.0
4×3×0.75		14.5	13.8	15.0	14×3×2.5		32.9	31.4	33.4
4×3×1.0		15.5	14.7	16.0	16×3×0.5		23.2	21.6	23.7
4×3×1.5		16.6	15.9	17.1	16×3×0.75		25.4	23.8	25.9
4×3×2.5		20.0	19.3	20.5	16×3×1.0		27.2	25.5	27.7
5×3×0.5		14.2	13.4	14.7	16×3×1.5		29.9	27.6	30.4
5×3×0.75		15.4	14.6	15.9	16×3×2.5		35.5	33.4	36.0
5×3×1.0		16.4	15.6	16.9	(18)19×3×0.5		25.1	23.2	25.6
5×3×1.5		17.6	16.8	18.7	(18)19×3×0.75		27.5	25.7	28.0
5×3×2.5		21.2	20.4	21.7	(18)19×3×1.0		30.0	27.6	30.5
(6) 7×3×0.5		15.1	14.2	15.6	(18)19×3×1.5		32.3	30.5	32.8
(6) 7×3×0.75		17.0	16.1	17.5	(18)19×3×2.5		38.4	36.6	38.9
(6) 7×3×1.0		18.8	17.2	19.3	24×3×0.5		28.5	25.8	29.0
(6) 7×3×1.5		20.2	19.2	20.7	24×3×0.75		31.2	29.1	31.7
(6) 7×3×2.5		23.5	22.6	24.0	24×3×1.0		33.4	31.2	34.3
8×3×0.5		17.6	15.9	18.1	24×3×1.5		36.4	34.3	36.9
8×3×0.75		19.2	17.6	19.7	24×3×2.5		43.2	41.0	43.7
8×3×1.0		20.5	19.4	21.0	/		/	/	/

备注：①铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径约0.5mm范围。
②铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑。

Note: 1: Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.
2: Cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.

对数×芯数×导体标称截面 mm² pair number* core number* nominal cross section	导体种类 Conductor category	电缆计算外径mm calculated outer diameter of cable			对数×芯数×导体标称截面 mm² pair number* core number* nominal cross section	导体种类 Conductor category	电缆计算外径mm calculated outer diameter of cable		
		DJYPVR DJVPVR DJYJPVR	DJYVPR DJVVPR DJYJVPR	DJYPVPR DJVPVPR DJYJPVPR			DJYPVR DJVPVR DJYJPVR	DJYVPR DJVVPR DJYJVPR	DJYPVPR DJVPVPR DJYJPVPR
1×3×0.5	R	7.3	7.3	—	8×3×1.5	R	24.2	23.2	24.7
1×3×0.75		8.0	8.0	—	8×3×2.5		27.9	26.9	29.0
1×3×1.0		8.6	8.6	—	10×3×0.5		20.6	19.3	21.1
1×3×1.5		9.3	9.3	—	10×3×0.75		23.6	22.3	24.1
1×3×2.5		10.5	10.5	—	10×3×1.0		25.0	23.8	25.5
2×3×0.5		11.3	10.9	11.8	10×3×1.5		27.5	26.3	28.0
2×3×0.75		13.2	12.8	13.7	10×3×2.5		32.5	31.2	33.0
2×3×1.0		14.0	13.5	14.5	12×3×0.5		21.6	20.2	22.1
2×3×1.5		15.3	14.9	15.8	12×3×0.75		24.8	23.3	25.3
2×3×2.5		17.6	17.2	18.7	12×3×1.0		26.3	24.9	26.8
3×3×0.5		12.7	11.7	13.2	12×3×1.5		29.6	27.5	30.1
3×3×0.75		14.4	13.9	14.9	12×3×2.5		34.5	32.7	35.0
3×3×1.0		15.2	14.7	15.7	14×3×0.5		22.6	21.1	23.1
3×3×1.5		16.7	16.2	17.2	14×3×0.75		25.9	24.4	26.4
3×3×2.5		19.8	19.3	20.3	14×3×1.0		27.5	26.0	28.0
4×3×0.5		13.7	13.0	14.2	14×3×1.5		30.9	29.4	31.4
4×3×0.75		15.6	15.0	16.1	14×3×2.5		36.1	34.6	36.0
4×3×1.0		16.5	15.9	17.0	16×3×0.5		24.1	22.4	24.6
4×3×1.5		18.7	17.5	19.2	16×3×0.75		27.6	26.0	28.1
4×3×2.5		21.5	20.9	22.0	16×3×1.0		29.9	27.7	30.4
5×3×0.5		14.7	13.9	15.2	16×3×1.5		32.9	31.3	33.4
5×3×0.75		16.6	15.9	17.1	16×3×2.5		38.5	36.9	39.0
5×3×1.0		17.6	16.9	18.7	(18)19×3×0.5		26.0	24.2	26.5
5×3×1.5		19.7	19.2	20.4	(18)19×3×0.75		30.5	28.0	31.0
5×3×2.5		22.9	22.2	23.4	(18)19×3×1.0		32.3	30.5	32.8
(6) 7×3×0.5		15.6	14.8	16.1	(18)19×3×1.5		36.0	33.8	36.5
(6) 7×3×0.75		19.1	17.5	19.6	(18)19×3×2.5		42.1	40.2	42.6
(6) 7×3×1.0		20.2	19.3	20.7	24×3×0.5		29.6	26.8	30.1
(6) 7×3×1.5		22.2	21.2	22.7	24×3×0.75		34.3	31.8	34.8
(6) 7×3×2.5		25.5	24.6	26.0	24×3×1.0		36.4	34.3	36.9
8×3×0.5		18.2	16.5	18.7	24×3×1.5		40.5	38.0	41.0
8×3×0.75		20.8	19.7	21.3	24×3×2.5		47.5	45.4	48.0
8×3×1.0		22.0	21.0	22.5	/		//	/	/

备注：①铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径约0.5mm范围。
②铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑。
③B类导体的电缆外径略小于R类导体的电缆外径,约0.5~1mm范围内。

Note:
1: Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.
2: Cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.
3: Outer diameter of cable with conductor of class B is smaller by 0.5~1mm than that of category R.

对数×芯数×导体标称截面 mm² pair number* core number* nominal cross section	导体种类 Conductor category	电缆计算外径mm calculated outer diameter of cable			对数×芯数×导体标称截面 mm² pair number* core number* nominal cross section	导体种类 conductor category	电缆计算外径mm calculated outer diameter of cable		
		DJYPV22 DJVPV22 DJYJPV22	DJYVP22 DJVVP22 DJYJVP22	DJYPVP22 DJVPVP22 DJYJPVP22			DJYPV22 DJVPV22 DJYJPV22	DJYVP22 DJVVP22 DJYJVP22	DJYPVP22 DJVPVP22 DJYJPVP22
1×3×0.5	A	10.8	10.8	—	8×3×1.5	A	25.0	24.0	25.5
1×3×0.75		11.1	11.1	—	8×3×2.5		29.7	28.1	30.2
1×3×1.0		11.6	11.6	—	10×3×0.5		23.8	22.5	24.3
1×3×1.5		12.3	12.3	—	10×3×0.75		24.8	23.6	25.3
1×3×2.5		13.5	13.5	—	10×3×1.0		26.7	25.0	27.2
2×3×0.5		14.9	14.5	15.4	10×3×1.5		29.1	27.2	29.6
2×3×0.75		15.3	14.9	15.8	10×3×2.5		33.4	32.1	34.3
2×3×1.0		16.1	15.7	16.6	12×3×0.5		24.8	23.4	25.3
2×3×1.5		17.0	16.6	17.5	12×3×0.75		25.8	24.5	26.3
2×3×2.5		19.9	19.5	20.4	12×3×1.0		27.8	26.0	28.9
3×3×0.5		15.9	15.3	16.4	12×3×1.5		30.3	28.3	30.8
3×3×0.75		16.4	15.8	16.9	12×3×2.5		35.2	33.5	36.2
3×3×1.0		17.3	16.6	18.4	14×3×0.5		26.2	24.3	26.7
3×3×1.5		18.9	18.3	19.4	14×3×0.75		27.3	25.4	27.8
3×3×2.5		21.4	20.8	21.9	14×3×1.0		29.5	27.4	30.0
4×3×0.5		16.9	16.2	17.4	14×3×1.5		31.5	30.0	32.0
4×3×0.75		17.5	16.8	18.6	14×3×2.5		37.2	35.2	37.7
4×3×1.0		19.1	18.3	19.6	16×3×0.5		27.7	25.6	28.2
4×3×1.5		20.2	19.5	20.7	16×3×0.75		29.4	27.2	29.9
4×3×2.5		23.0	22.3	23.5	16×3×1.0		31.2	29.5	31.7
5×3×0.5		18.5	17.1	19.0	16×3×1.5		33.3	31.6	33.8
5×3×0.75		19.0	17.6	19.5	16×3×2.5		39.8	37.7	40.3
5×3×1.0		20.0	19.2	20.5	(18)19×3×0.5		30.2	27.8	30.7
5×3×1.5		21.2	20.4	21.7	(18)19×3×0.75		31.5	29.7	32.0
5×3×2.5		24.2	23.4	24.7	(18)19×3×1.0		33.4	31.6	34.3
(6) 7×3×0.5		19.4	18.6	19.9	(18)19×3×1.5		36.6	34.3	37.1
(6) 7×3×0.75		20.6	19.7	21.1	(18)19×3×2.5		42.9	41.1	43.4
(6) 7×3×1.0		21.8	20.8	22.3	24×3×0.5		33.6	31.0	34.1
(6) 7×3×1.5		23.2	22.2	23.7	24×3×0.75		35.0	32.5	36.0
(6) 7×3×2.5		26.9	25.6	27.4	24×3×1.0		37.7	35.0	38.2
8×3×0.5		21.4	20.3	21.9	24×3×1.5		40.9	38.2	41.4
8×3×0.75		22.2	21.2	22.7	24×3×2.5		48.1	45.7	48.6
8×3×1.0		23.5	22.4	24.0	/		/	/	/

备注：①铜塑复合带屏蔽型及铝塑复合带屏蔽型的电缆外径略小于铜丝编织屏蔽型电缆外径约0.5mm范围。
②铜塑复合带屏蔽型电缆及铝塑复合带屏蔽型电缆的外径可以按相同设计考虑。
③钢丝铠装型电缆外径在钢带铠装型电缆外径基础上增加1~1.5mm。

Note: 1: Outer diameter of cable with copper(aluminum)-plastic compound tape shielding is smaller by 0.5mm than that with copper wire braided shielding.
2: Cable with copper-plastic compound tape shielding and cable with aluminum-plastic compound tape shielding can be designed with similar consideration.
3: Outer diameter of cable with steel wire armor is added by 1~1.5mm on the basis of that with steel tape armor.

本安计算机用屏蔽电缆（或称本安DCS系统用电缆）
Intrinsic Safety Type Computer Shielding Cable(Intrinsic Safety Type Cable for DCS System)

本产品适用于石油、化工、电力、煤气工程、矿山等存在爆炸危险的场合以及其它防爆安全要求较高的场合，传输自动控制信号。该电缆具有低电容、低电感集散型仪表信号电缆，简称本安型DCS电缆，具有优异的屏蔽性能和抗干扰性能，因此防爆安全性能明显高于一般DCS电缆和计算机控制电缆。

It is used to transmit automatic control signal in the environment not only with exploding danger such as petroleum, chemical plant, power, gas project and mine but also with high demand on explosion proof performance. It is decentralized type instrument signal cable with the feature of low capacitance & low inductance & good shielding performance and interference proof performance, which is also named as Intrinsic safety type cable for DCS system. So, its performance of explosion-proof & safety is apparently higher compared with common computer control cable and cable for DSC.

一、生产执行标准　企业标准。

Executive standard: enterprise standard

二、使用特性

1、交流额定电压U0/U：300/500V。

2、电缆导体长期允许最高工作温度：聚乙烯绝缘为70℃；交联聚乙烯绝缘为90℃；无卤低烟阻燃聚烯烃绝缘为70℃。

3、最低环境温度：固定敷设-40℃；非固定敷设-15℃。安装敷设时环境温度：不低于0℃。

4、电缆允许弯曲半径：非铠装、编织屏蔽电缆不小于电缆外径的6倍；铜带屏蔽、铠装电缆不小于电缆外径的12倍。

Performance for Usage

1: AC rated voltageU0/U：300/500V.

2: Max temperature of cable conductor for long term working is 70℃ for cable with PE insulation, 90℃ for cable with XLPE insulation and 70℃for cable with free halogen, low smoke, flame retardant, polyolefin insulation.

3: Min. environment temperature is -40℃ for fixed laying and -15℃ for non-fixed laying. Environment temperature for installing is no less than 0℃.

4: Bending radius allowed by cable is no less than 6 times that of cable OD for inarmored braided shielding cable and 12 times that of cable OD for copper tape shielding, armored cable.

三、基本型号及名称

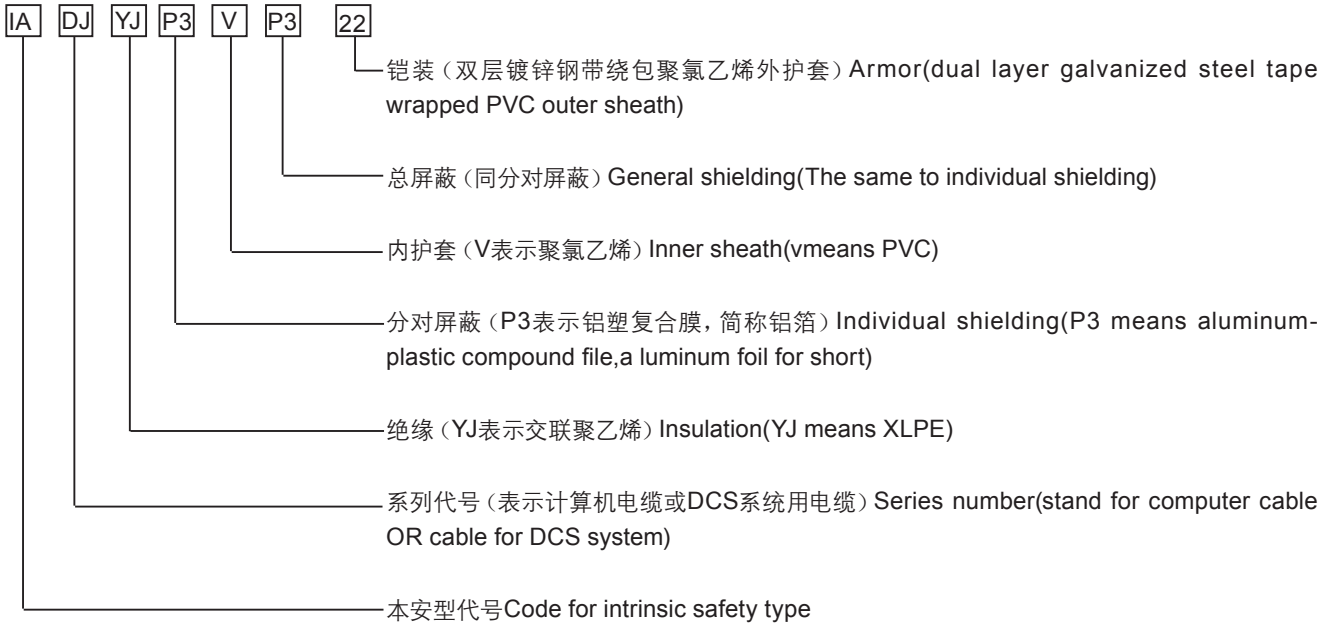
Basic Type and Description

型　号Type	名　称Description
IA-DJYPVP	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏本安型DCS电缆 Intrinsic safety type cable for DCS system with Cu core, PE insulation, PVC sheath, copper wire braided general & individual shielding
IA-DJYPVPR	铜芯聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏本安型DCS软电缆 Intrinsic safety type soft cable for DCS system with Cu core, PE insulation, PVC sheath, copper wire braided general & individual shielding
IA-DJYP3VP3	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏本安型DCS电缆 Intrinsic safety type cable for DCS system with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapped general & individual shielding
IA-DJYP3VP3R	铜芯聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏本安型DCS软电缆 Intrinsic safety type soft cable for DCS system with Cu core, PE insulation, PVC sheath, aluminum-plastic compound tape wrapped general & individual shielding
IA-DJYP2VP2	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏本安型DCS电缆 Intrinsic safety type cable for DCS system with Cu core, PE insulation, PVC sheath, copper-plastics compound tape wrapped general & individual shielding
IA-DJYP2VP2R	铜芯聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏本安型DCS软电缆 Intrinsic safety type soft cable for DCS system with Cu core, PE insulation, PVC sheath, copper-plastic compound tape wrapped general & individual shielding
IA-DJYJPVP	铜芯交联聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏本安型DCS电缆 Intrinsic safety type cable for DCS system with Cu core, XLPE insulation, PVC sheath, copper wire braided general & individual shielding
IA-DJYJPVPR	铜芯交联聚乙烯绝缘聚氯乙烯护套铜线编织分屏总屏本安型DCS软电缆 Intrinsic safety type soft cable for DCS system with Cu core, XLPE insulation, PVC sheath, copper wire braided general & individual shielding

IA-DJYJP3VP3	铜芯交联聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏本安型DCS电缆 Intrinsic safety type cable for DCS system with Cu core, XLPE insulation, PVC sheath, aluminum-plastic compound tape wrapped general & individual shielding
IA-DJYJP3VP3R	铜芯交联聚乙烯绝缘聚氯乙烯护套铝塑复合带绕包分屏总屏本安型DCS软电缆 Intrinsic safety type soft cable for DCS system with Cu core, XLPE insulation, PVC sheath, aluminum-plastic compound tape wrapped general & individual shielding
IA-DJYJP2VP2	铜芯交联聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏本安型DCS电缆 Intrinsic safety type cable for DCS system with Cu core, XLPE insulation, PVC sheath, copper-plastic compound tape wrapped general & individual shielding
IA-DJYJP2VP2R	铜芯交联聚乙烯绝缘聚氯乙烯护套铜塑复合带绕包分屏总屏本安型DCS软电缆 Intrinsic safety type soft cable for DCS system with Cu core, XLPE insulation, PVC sheath, copper-plastic compound tape wrapped general & individual shielding
WDZ-IA-DJYPYP	铜芯无卤低烟阻燃聚烯烃绝缘及护套铜线编织分屏总屏本安型DCS电缆 Intrinsic safety type cable for DCS system with Cu core, free halogen, low smoke, flame retardant, polyolefin insulation & sheath, copper wire braided general & individual shielding
WDZ-IA-DJYPYPR	铜芯无卤低烟阻燃聚烯烃绝缘及护套铜线编织分屏总屏本安型DCS软电缆 Intrinsic safety type soft cable for DCS system with Cu core, free halogen, low smoke, flame retardant, polyolefin insulation & sheath, copper wire braided general & individual shielding
WDZ-IA-DJYP3YP3	铜芯无卤低烟阻燃聚烯烃绝缘及护套铝塑复合带绕包分屏总屏本安型DCS电缆 Intrinsic safety type cable for DCS system with Cu core, free halogen, low smoke, flame retardant, polyolefin insulation & sheath, aluminum-plastic compound tape wrapped general & individual shielding
WDZ-IA-DJYP3YP3R	铜芯无卤低烟阻燃聚烯烃绝缘及护套铝塑复合带绕包分屏总屏本安型DCS软电缆 Intrinsic safety type soft cable for DCS system with Cu core, free halogen, low smoke, flame retardant, polyolefin insulation & sheath, aluminum-plastic compound tape wrapped general & individual shielding
WDZ-IA-DJYP2YP2	铜芯无卤低烟阻燃聚烯烃绝缘及护套铜塑复合带绕包分屏总屏本安型DCS电缆 Intrinsic safety type cable for DCS system with Cu core, free halogen, low smoke, flame retardant, polyolefin insulation & sheath, copper-plastic compound tape wrapped general & individual shielding
WDZ-IA-DJYP2YP2R	铜芯无卤低烟阻燃聚烯烃绝缘及护套铜塑复合带绕包分屏总屏本安型DCS软电缆 Intrinsic safety type soft cable for DCS system with Cu core, free halogen, low smoke, flame retardant, polyolefin insulation & sheath, copper-plastic compound tape wrapped general & individual shielding

四、型号名称及含义 Type, Description and Definition

举例eg：



绝缘或护套材料：Y—聚乙烯或无卤低烟阻燃聚烯烃挤包绝缘、护套;

YJ—交联聚乙烯挤包绝缘

Insulation or sheath material:

Y: PE insulation and sheath OR free halogen, low smoke, flame retardant, polyolefin extruded insulation & sheath

YJ: XLPE extruded insulation

阻燃性能分：ZRA—A类阻燃（A类阻燃性能最佳）

ZRB—B类阻燃

ZRC—C类阻燃

本安阻燃型电缆在基本型号前分别加“ZRA-”、“ZRB-”、“ZRC-”表示即可。

Flame retardant performance category:

ZRA: category A (the best)

ZRB: category B

ZRC: category C

Prefix “ZRA-”、“ZRB-”、“ZRC-” should be added to the original type for cable with intrinsic safety type cable

铠装结构：22—钢带铠装聚氯乙烯外护套

23—钢带铠装聚乙烯外护套

32—圆形镀锌低碳钢丝缠绕铠装聚氯乙烯外护套

33—圆形镀锌低碳钢丝缠绕铠装聚乙烯外护套

屏蔽材料：P—铜线编织

P1—镀锡铜线编织

P2—铜塑复合带绕包

P3—铝塑复合带绕包

导体种类：A—单根导体（型号中省略）

B—七根绞合导体（在规格后面加“B”表示）

R—多根绞合导体

Armor structure:

22 means steel tape armor, PVC outer sheath

23 means steel tape armor, PE outer sheath

32 means round galvanized low carbon steel wire wrapping, armor, PVC outer sheath

33 means round galvanized low carbon steel wire wrapping, armor, PE outer sheath

Shielding material:

P means copper wire braiding

P1 means tinned copper wire braiding

P2 means copper-plastic compound tape wrapping

P3 means aluminum- plastic compound tape wrapping

Conductor category:

A means single conductor (omitted in type)

B means 7 stranded conductor(“B” shall be added after specification)

C means multi-stranded conductor

五、规格范围

对数：1~24对。

每对芯数：二芯(称二线组)或三芯(称三线组)。

导体截面：0.5mm2、0.75mm2、1.0mm2、1.5mm2、2.5mm2。

Specification Scope

Pair No.: 1~24 pairs

Core No. per pair: 2 cores(equal to 2 wire group) or 3 cores(equal to 3 wire group)

Cross section area of conductor: 0.5mm2、0.75mm2、1.0mm2、1.5mm2、2.5mm2

六、其他常见型号与本公司型号对照

Comparison between other common type and type of our company

其他型号 Other type	本厂型号 Type of our company
ia-K_2YVR、ia-K_3YVR、IJYP$_L$VP$_L$R、IJYP$_3$VR-2	IA-DJYP3VP3R
ia-K_2YV、ia-K_3YV、IJYP$_L$VP$_L$、IJYP$_3$V-2 ia-K_2YV(EX)、ia-K_3YV(EX)	IA-DJYP3VP3
KJYYVP$_L$、IA-KJVVP$_L$	IA-DJYP3VP3

七、主要技术参数

Main Technical Parameter

1、20℃导体直流电阻

DC resistance of conductor at 20℃

导体标称 截面mm^2 nominal cross area section	导体根数/单丝直径mm Pieces of conductor/diameter of single piece			20℃时导体直流电阻Ω/km DC resistance of conductor at 20℃	
	A	B	R	A、B	R
0.5	1/0.80	7/0.30	16/0.20	≤36.0	≤39.0
0.75	1/0.97	7/0.37	24/0.20	≤24.5	≤26.0
1.0	1/1.13	7/0.43	32/0.20	≤18.1	≤19.5
1.5	1/1.38	7/0.52	30/0.25	≤12.1	≤13.3
2.5	1/1.78	7/0.68	49/0.25	≤7.41	≤7.98

2、20℃绝缘电阻

Insulation resistance at 20℃

性能项目 Performance item	PE类、XLPE绝缘 PE category, XLPE insulation
20℃时绝缘电阻MΩ.km Insulation resistance at 20℃	≥500

3、电缆应经受工频交流电压试验：2000V/1min绝缘不发生击穿，试验温度为环境温度。

4、工作电容（1KHZ）：线芯与线芯≤90PF/m。

5、分布电感（1KHZ）≤0.6μH/m。

6、电磁干扰感应电压(干扰磁场400A/m) ≤5mV。

7、静电感应电压（静电电压20kV）＜1V。

8、辐射场透入强度（干扰场强120dBμV，干扰场频率200MHZ）≤66dBμV。

Cable shall endure A.C. voltage test of 2000V under power frequency for 1min without puncture of insulation. And testing temperature is environment temperature.

Working capacitance（1KHZ）: core to core ≤90PF/m

Distributing inductance（1KHZ）≤0.6μH/m

Inductive voltage of electromagnetic interference(interference magnetic field): ≤5mV

Inductive voltage of electrostatic(static voltage) ＜1V

Penetration stress of radiant field(stress of interference field is 120dBμV; frequency of interference field is 200MHZ) ≤66dBμV

八、电缆外径参数

Parameter of cable OD

请参照计算机用屏蔽电缆的相关内容。

Please refer to relevant contents of computer shielding cable

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