

乙丙橡胶绝缘扁电缆
EPR insulated flat cable

产品用途

本产品适用于交流额定电压8.7/15kV及以下移动抗拉等特殊要求的火车、台车、传输机械等移动电源用动力传输及控制、照明、通讯线路。本产品已广泛用于冶金、电力、化工、船舶、港口等行业。

使用特性

1. 电缆额定电压U₀/U分别为：450/750V, 0.6/1kV, 3.6/6kV, 6/10kV, 8.7/10(15)kV。
2. 电缆导体最高允许工作温度不超过90℃。
3. 电缆最高允许短期温度（持续时间不超过5s）：不超过250℃。
4. 电缆最小弯曲半径应不小于电缆外径的6倍。

Application

The cable is applicable to the movable equipment (up to and including 8.7/15kV), eg. pallet car, delivery machine as the power supply cable or control lighting and communication cable. It is widely used in metal, refining, chemical, shipyard and port industries.

Service property

1. The rated voltage U₀/U of the cable should be 450/750V, 0.6/1kV, 3.6/6kV, 6/10kV, 8.7/10(15)kV.
2. Allowed maximum operating temperature of cable conductor should be 90°C.
3. Allowed maximum short circuit temperature (lasting 5 seconds) should be 250°C.
4. Minimum bending radius should be 6 times of cable outer diameter.

基本型号及名称 Type and description

型号 Type	名称 Description
YEVFB	铜芯乙丙橡胶绝缘丁腈复合护套弹性扁移动用扁平电缆 Copper core EPR insulated copper sheathedmovable flexible flat cable
YEGB	铜芯乙丙橡胶硅橡胶护套弹性扁移动用扁平电缆 Copper core EPR insulated silicon rubber sheathedmovable flexible flat cable
YESB	铜芯乙丙橡胶弹性弹性护套弹性扁移动用扁平电缆 Copper core EPR silicon rubber insulated thermoplastic elastomer sheathedmovable flexible flat cable
YEVFB	铜芯乙丙橡胶绝缘丁腈复合护套铜丝编织屏蔽型弹性扁移动用扁平电缆 Copper core EPR insulated copper wire braided shielded EPR sheathedmovable flexible flat cable
YEGPB	铜芯乙丙橡胶硅橡胶护套铜丝编织屏蔽型弹性扁移动用扁平电缆 Copper core EPR insulated copper wire braided shielded silicon rubber sheathedmovable flexible flat cable
YESPB	铜芯乙丙橡胶弹性弹性护套铜丝编织屏蔽型弹性扁移动用扁平电缆 Copper core EPR silicon rubber insulated copper wire braided shielded thermoplastic elastomer sheathed movable flexible flat cable

代号名称和含义 Code and meaning

代号 Code	说明 Description
Y	移动软电缆 Movable flexible cable
E	EPR绝缘 EPR insulation
VF	丁腈复合护套 NBR sheath
G	硅橡胶护套 Silicon rubber sheath
S	热塑性弹性体护套 Thermoplastic elastomer sheath
P	铜丝编织屏蔽 Copper wire braided shield
B	扁平 Flat
T	加强型钢丝绳 Reinforced steel wire rope

主要技术指标

1. 20℃时导体直流电阻符合GB/T3956规定；
2. 20℃时绝缘电阻不小于500MΩ.km；
3. 电缆经受工频电压试验5min不击穿。

Main technical index

1. Conductor d.c. resistance at 20°C should comply with stipulations of GB/T3956.
2. Insulation resistance at 20°C should be not less than 500MΩ.km.
3. Cable withstand power frequency test for 5 minutes without puncture.

额定电压kV	工频试验电压kV	额定电压kV	工频试验电压kV
0.45/0.75	3.0	6/6, 6/10	21.0
0.6/1	3.5	8.7/10, 8.7/15	30.5
3.6/6	12.5		

基本电缆规格和结构参数 Cable specification and structural parameter

线芯×标称截面 Number of cores × nominal cross section area	导体结构 Conductor structure	外形尺寸(mm) Dimension	线芯×标称截面 Number of cores × nominal cross section area	导体结构 Conductor structure	外形尺寸(mm) Dimension
2×0.75	5	11.8×7.8	3×95	5	66.2×27.4
2×1	5	12.7×9	3×120	5	74.4×29.8
2×1.5	5	13.4×8.6	3×150	5	81.1×32.7
2×2.5	5	14.5×9	3×185	5	86.5×34.5
2×4	5	16.7×10.6	3×240	5	99.3×39.1
2×6	5	18.5×11.5	4×0.75	5	19.8×7.9
2×10	5	23.5×15	4×1	5	20.2×7.9
2×16	5	25.7×16.1	4×1.5	5	23×8.6
2×25	5	29.8×18	4×2.5	5	25.5×9
2×35	5	32.8×20	4×4	5	28.9×10.6
2×50	5	37.4×22.2	4×6	5	32.5×11.5
2×70	5	41.4×24.2	4×10	5	38.5×13
2×95	5	46.8×27.4	4×16	5	44.9×16.1
2×120	5	52.1×29.8	4×25	5	53.4×18
2×150	5	56.9×32.7	4×35	5	58.4×20
2×185	5	63.5×34.5	4×50	5	67.8×22.2
2×240	5	69.2×39.1	4×70	5	75.8×24.2
3×0.75	5	15.8×7.8	4×95	5	85.6×27.4
3×1	5	16.1×7.9	4×120	5	96.7×29.8
3×1.5	5	18.2×8.6	5×0.75	5	23.8×7.8
3×2.5	5	20×9	5×1	5	24.3×7.9
3×4	5	22.8×10.6	5×1.5	5	27.8×8.6
3×6	5	25.5×11.5	5×2.5	5	31×9
3×10	5	32×15	5×4	5	35×10.6
3×16	5	35.3×16.1	5×6	5	39.5×11.5
3×25	5	41.6×18	5×10	5	49×15
3×35	5	45.6×20	5×16	5	54.5×16.1
3×50	5	52.6×22.2	5×25	5	65.2×18
3×70	5	58.6×24.2	5×35	5	71.2×20



续上表Continued

线芯×标称截面 Number of cores × nominal cross section area	导体结构 Conductor structure	外形尺寸(mm) Dimension		线芯×标称截面 Number of cores × nominal cross section area	导体结构 Conductor structure	外形尺寸(mm) Dimension	
		YEGB				YEGB	
5×50	5	83×22.2		7×6	5	53.5×11.5	
5×70	5	93×24.2		7×10	5	66×15	
5×95	5	105×27.4		8×0.75	5	35.8×7.8	
6×0.75	5	27.8×7.8		8×1	5	36.6×7.9	
6×1	5	28.4×7.9		8×1.5	5	42.2×8.6	
6×1.5	5	32.6×8.6		8×2.5	5	47.5×9	
6×2.5	5	36.5×9		8×4	5	53.3×10.6	
6×4	5	41.1×10.6		8×6	5	60.5×11.5	
6×6	5	46.5×11.5		10×0.75	5	43.8×7.8	
6×10	5	57.5×15		10×1	5	44.8×7.9	
7×0.75	5	31.8×7.8		10×1.5	5	51.8×8.6	
7×1	5	32.5×7.9		10×2.5	5	58.5×9	
7×1.5	5	37.4×8.6		10×4	5	65.5×10.6	
7×2.5	5	42×9		10×6	5	74.5×11.5	
7×4	5	47.2×10.6					