

丁腈绝缘扁电缆 NBR insulated flat cable

产品用途

本产品具有耐寒、柔软、耐磨、防油等特性，适用于交流额定电压0.6/1kV及以下具有防寒、防油等特殊要求的行车、台车、传输机械等移动电器用动力传输及控制、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。

分相屏蔽丁腈扁平电缆适用于作变频器供电电缆。

使用特性

- 1、电缆额定电压 U_0/U 分别为：450/750V、0.6/1kV。
- 2、电缆导体最高允许工作温度不超过70℃。
- 3、电缆最高允许短路温度（持续时间不超过5s）：不超过160℃。
- 4、电缆最小弯曲半径应不小于电缆外径的6倍。

Application

The cable is soft and oilproof and can endure the extremecold and wear. It is applicable to the movable equipment (0.6kV or lower), eg. palet car, delivery machine, as the power supply cable or control lighting and communication cable. It has found its uses in metal refining electrical ship or port industries.

Phase-shielded NBR flat cable is applicable to the frequency converter as the power cable.

Service property

1. The rated voltage U_0/U of the cable should be 450/750V、0.6/1kV.
2. Allowed maximum operating temperature of cable conductor should be 70℃.
3. Allowed maximum short circuit temperature (lasting 5 seconds) should be 160℃.
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 |
|---------|---|
| YVFB | 铜芯丁腈复合物绝缘及护套移动用扁平软电缆 Copper core NBR insulated and sheathed movable flexible flat cable |
| YVFGGB | 铜芯丁腈复合物绝缘硅橡胶护套移动用扁平软电缆 Copper core NBR insulated silicon rubber sheathed movable flexible flat cable |
| YVFSSB | 铜芯丁腈复合物绝缘热塑性弹性体护套移动用扁平软电缆 Copper core NBR insulated thermoplastic elastomer sheathed movable flexible flat cable |
| YVFBP | 铜芯丁腈复合物绝缘及护套铜丝编织屏蔽型移动用扁平软电缆 Copper core NBR insulated and sheathed copper wire braided shielded movable flexible flat cable |
| YVFGGPB | 铜芯丁腈复合物绝缘铜丝编织屏蔽型硅橡胶护套移动用扁平软电缆 Copper core NBR insulated copper wire braided shielded silicon rubber sheathed movable flexible flat cable |
| YVFSPB | 铜芯丁腈复合物绝缘铜丝编织屏蔽型热塑性弹性体护套移动用扁平软电缆 Copper core NBR 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 |
| VF | 丁腈复合物绝缘或护套 NBR insulation or 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 |



主要技术指标

- 20℃时导体直流电阻符合GB/T3956规定;
- 20℃时绝缘电阻不小于10MΩ.km;
- 电缆经交流3.5kV/5min电压试验不击穿。

Main technical index

- Conductor d.c. resistance at 20℃ complies with stipulations of GB/T3956.
- Insulation resistance at 20℃ should be not less than 10MΩ.km.
- Cable withstand a.c. 3.5kV for 5 minutes without puncture.

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

| 线芯×标称截面mm ² Number of cores × nominal cross section area | 导体结构 Conductor structure | 电缆最大外径(mm) Maximum outer diameter | | | |
|--|--------------------------------|---|-------------|---|------------|
| | | YVFB | YVFB | | |
| 2×0.75 | 5 | 16.2×6.8 | 4×0.75 | 5 | 23.2×6.8 |
| 2×1 | 5 | 16.4×6.9 | 4×1 | 5 | 23.6×6.9 |
| 2×1.5 | 5 | 17.8×7.6 | 4×1.5 | 5 | 26.4×7.6 |
| 2×2.5 | 5 | 19.5×8 | 4×2.5 | 5 | 30.5×8 |
| 2×4 | 5 | 21.7×9.6 | 4×4 | 5 | 33.9×9.6 |
| 2×6 | 5 | 23.5×10.5 | 4×6 | 5 | 37.5×10.5 |
| 2×10 | 5 | 28.5×14 | 4×10 | 5 | 45.5×14 |
| 2×16 | 5 | 30.7×15.1 | 4×16 | 5 | 50.9×15.1 |
| 2×25 | 5 | 35.4×17 | 4×25 | 5 | 60×17 |
| 2×35 | 5 | 39.4×19 | 4×35 | 5 | 66×19 |
| 2×50 | 5 | 44.4×21.2 | 4×50 | 5 | 75.8×21.2 |
| 2×70 | 5 | 48.4×23.2 | 4×70 | 5 | 84.8×23.2 |
| 2×95 | 5 | 54.8×26.4 | 4×95 | 5 | 95.6×26.4 |
| 2×120 | 5 | 62.1×28.8 | 4×120 | 5 | 107.7×28.8 |
| 2×150 | 5 | 66.9×31.7 | 3×10+1×6 | 5 | 44×14 |
| 2×185 | 5 | 70.5×33.5 | 3×16+1×10 | 5 | 49.8×15.1 |
| 2×240 | 5 | 81.2×38.1 | 3×25+1×16 | 5 | 58.1×17 |
| 3×0.75 | 5 | 20.2×6.8 | 3×35+1×16 | 5 | 62.1×19 |
| 3×1 | 5 | 20.5×6.9 | 3×50+1×25 | 5 | 72.8×21.2 |
| 3×1.5 | 5 | 22.6×7.6 | 3×70+1×35 | 5 | 80.6×23.2 |
| 3×2.5 | 5 | 25×8 | 3×95+1×50 | 5 | 90.4×26.4 |
| 3×4 | 5 | 27.8×9.6 | 3×120+1×70 | 5 | 103.1×28.8 |
| 3×6 | 5 | 30.5×10.5 | 3×150+1×70 | 5 | 110.8×31.7 |
| 3×10 | 5 | 37×14 | 3×185+1×95 | 5 | 118.4×33.5 |
| 3×16 | 5 | 40.3×15.1 | 3×240+1×120 | 5 | 137.1×38.1 |
| 3×25 | 5 | 48.2×17 | 5×0.75 | 5 | 28.2×6.8 |
| 3×35 | 5 | 52.2×19 | 5×1 | 5 | 28.7×6.9 |
| 3×50 | 5 | 60.6×21.2 | 5×1.5 | 5 | 32.2×7.6 |
| 3×70 | 5 | 66.6×23.2 | 5×2.5 | 5 | 36×8 |
| 3×95 | 5 | 75.2×26.4 | 5×4 | 5 | 40×9.6 |
| 3×120 | 5 | 85.4×28.8 | 5×6 | 5 | 44.5×10.5 |
| 3×150 | 5 | 92.1×31.7 | 5×10 | 5 | 55×14 |
| 3×185 | 5 | 98.5×33.5 | 5×16 | 5 | 60.5×15.1 |
| 3×240 | 5 | 114.3×38.1 | 5×25 | 5 | 72.8×17 |

续上表Continued

| 线芯×标称截面mm ² Number of cores × nominal cross section area | 导体结构 Conductor structure | 电缆最大外径(mm) Maximum outer diameter | | 线芯×标称截面mm ² Number of cores × nominal cross section area | 导体结构 Conductor structure | 电缆最大外径(mm) Maximum outer diameter | |
|--|--------------------------------|---|---------|--|--------------------------------|---|------|
| | | YVFB | YVFB | | | YVFB | YVFB |
| 5×35 | 5 | 78.8×19 | 7×4 | 5 | 52.2×9.6 | | |
| 5×50 | 5 | 92×21.2 | 7×6 | 5 | 58.5×10.5 | | |
| 5×70 | 5 | 103×23.2 | 7×10 | 5 | 72×14 | | |
| 5×95 | 5 | 115×26.4 | 8×0.75 | 5 | 40.2×6.8 | | |
| 6×0.75 | 5 | 32.2×6.8 | 8×1 | 5 | 41×6.9 | | |
| 6×1 | 5 | 32.8×6.9 | 8×1.5 | 5 | 46.6×7.6 | | |
| 6×1.5 | 5 | 37×7.6 | 8×2.5 | 5 | 52.5×8 | | |
| 6×2.5 | 5 | 41.9×8 | 8×4 | 5 | 58.3×9.6 | | |
| 6×4 | 5 | 46.1×9.6 | 8×6 | 5 | 65.5×10.5 | | |
| 6×6 | 5 | 51.5×10.5 | 10×0.75 | 5 | 48.2×6.8 | | |
| 6×10 | 5 | 63.5×14 | 10×1 | 5 | 49.2×6.9 | | |
| 6×15 | 5 | 66.2×6.8 | 10×1.5 | 5 | 56.2×7.6 | | |
| 7×1 | 5 | 36.9×6.9 | 10×2.5 | 5 | 63.6×8 | | |
| 7×1.5 | 5 | 41.6×7.6 | 10×4 | 5 | 70.5×9.6 | | |
| 7×2.5 | 5 | 47×8 | 10×6 | 5 | 80.5×10.5 | | |