

低烟无卤阻燃屏蔽双绞

信号电缆

WDZR-RYYP5



应用范围

本电缆适用于交流（AC）额定电压 U_0/U 为 300/300V 及以下的系统。其设计用于需要屏蔽、抗干扰连接的应用，例如：

- ☑ 自动化和控制系统
- ☑ 安全警报系统
- ☑ 音频和公共广播（PA）系统



结构和材料

- ☑ 导体：高纯度无氧铜线（普通退火铜），符合 IEC 60228 标准
- ☑ 绝缘：高阻燃、低烟无卤（LSOH）聚烯烃材料
- ☑ 绞合：绝缘线芯绞合成对
- ☑ 屏蔽：总屏蔽由以下组成
 - 铝箔（铝塑复合带）
 - 高密度镀锡铜线编织
- ☑ 护套（外被）：高阻燃、低烟无卤（LSOH）聚烯烃材料



性能特点

- ☑ 工作温度
 - 长期允许工作温度：90°C
- ☑ 安装温度
 - 最低电缆安装温度：-20°C
- ☑ 防火性能
 - 火焰传播符合 IEC60332-1-2 & IEC60332-3-22/23/24 标准
 - 低烟雾排放：烟密度符合 IEC61034-2 标准，最小透光率 $\geq 60\%$
 - 无卤特性符合 IEC 60754-1 标准，卤酸气体释放量 $\leq 2.0 \text{ mg/g}$
 - 释出气体的酸度（pH）值和电导率符合 IEC 60754-2 标准：pH ≥ 4.3 ，电导率 $\leq 10 \mu\text{S/mm}$



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技术数据

| 规格 (对数 x 芯数 x 导体 截面积 mm ²) | 导体结构 (股数 / 单股直径 mm) | 标称绝缘 厚度 (mm) | 标称护套 厚度 (mm) | 近似外径 (mm) | 20°C 时最大 导体直流电阻 (Ω/km) | 70°C 时最小 绝缘电阻 (MΩ·km) | 参考载流量 (A) |
|--|---------------------------|--------------------|--------------------|--------------|------------------------------|-----------------------------|--------------|
| 1 x 2 x 0.5 | 16 / 0.20 | 0.5 | 0.6 | 5.4 | 39.0 | 0.013 | 5.0 |
| 1 x 2 x 0.75 | 24 / 0.20 | 0.5 | 0.6 | 5.9 | 26.0 | 0.012 | 7.0 |
| 1 x 2 x 1.0 | 32 / 0.20 | 0.6 | 0.6 | 6.7 | 19.5 | 0.010 | 11.0 |
| 1 x 2 x 1.5 | 48 / 0.20 | 0.7 | 0.8 | 7.9 | 13.3 | 0.009 | 17.0 |
| 1 x 2 x 2.5 | 49 / 0.25 | 0.8 | 1.0 | 9.7 | 8.8 | 0.009 | 26.0 |
| 2 x 2 x 0.5 | 16 / 0.20 | 0.5 | 0.8 | 8.0 | 39.0 | 0.013 | 5.0 |
| 2 x 2 x 0.75 | 24 / 0.20 | 0.5 | 0.9 | 9.1 | 26.0 | 0.012 | 7.0 |
| 2 x 2 x 1.0 | 32 / 0.20 | 0.6 | 1.0 | 10.6 | 19.50 | 0.010 | 11.0 |
| 2 x 2 x 1.5 | 48 / 0.20 | 0.7 | 1.1 | 12.3 | 13.30 | 0.009 | 17.0 |
| 2 x 2 x 2.5 | 49 / 0.25 | 0.8 | 1.3 | 15.3 | 8.8 | 0.009 | 26.0 |
| 3 x 2 x 0.5 | 16 / 0.20 | 0.5 | 0.9 | 8.7 | 39.0 | 0.013 | 5.0 |
| 3 x 2 x 0.75 | 24 / 0.20 | 0.5 | 0.9 | 9.6 | 26.0 | 0.012 | 7.0 |
| 3 x 2 x 1.0 | 32 / 0.20 | 0.6 | 1.0 | 11.2 | 19.5 | 0.010 | 11.0 |
| 3 x 2 x 1.5 | 48 / 0.20 | 0.7 | 1.2 | 13.2 | 13.3 | 0.009 | 17.0 |
| 4 x 2 x 0.5 | 16 / 0.20 | 0.5 | 0.9 | 9.4 | 39.0 | 0.013 | 5.0 |
| 4 x 2 x 0.75 | 24 / 0.20 | 0.5 | 1.0 | 10.7 | 26.0 | 0.012 | 7.0 |
| 4 x 2 x 1.0 | 32 / 0.20 | 0.6 | 1.1 | 12.5 | 19.50 | 0.010 | 11.0 |
| 4 x 2 x 1.5 | 48 / 0.20 | 0.7 | 1.3 | 14.7 | 13.3 | 0.009 | 17.0 |



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Low Smoke Zero Halogen Flame Retardant Shielded Twisted Pair Signal Cable

WDZR-RYYPS



Application Range

This cable is suitable for use in AC (alternating current) systems with a rated voltage U₀/U of 300/300V and below. It is designed for applications requiring shielded, interference-resistant connections, such as:

- Automation and control systems
- Security alarm systems
- Audio and public address (PA) systems

Construction and Materials

- Conductor: High-purity oxygen-free copper wire (Plain annealed copper) to IEC 60228
- Insulation: High flame-retardant, Low Smoke Zero Halogen (LSOH) polyolefin material.
- Twisting: Insulated cores are twisted into pairs.
- Shielding: Overall shield consisting of:
 - Aluminium foil (Al-Pet tape)
 - High-density tinned copper wire braid
- Sheath (Jacket): High flame-retardant, Low Smoke Zero Halogen (LSOH) polyolefin material.

Performance Characteristics

- Operating Temperature:
 - Long-term permissible working temperature: 90°C
- Installation Temperature:
 - Minimum cable installation temperature: -20°C
- Fire Performance:
 - Flame Propagation to IEC60332-1-2 & IEC60332-3-22/23/24
 - Low Smoke Emission: Smoke Density to IEC61034-2, Min. Light Transmittance ≥ 60%
 - Halogen Free Properties IEC 60754-1, Halogen Acid Gas Emission: ≤ 2.0 mg/g
 - Acidity (pH) Value & Conductivity of Evolved Gases to IEC 60754-2: pH ≥ 4.3 and Conductivity ≤ 10 μS/mm

Cable Specifications

