

LANmark-7A 数据铜缆

LANMARK-7A 1600 S/FTP AWG22 CAT 7A 1600MHZ LSZH B2CA S1A D1 A1 橙色 1000M 卷轴

Aginode Ref: N100.381-OB

- 在 ACR 和频率范围方面超过 7A 类
- 适用于容量超过 25Gbps 的通道
- AWG22 导线尺寸
- 正衰减与串音比高达 1600MHz
- 优化用于 LANmark-7A GG45 连接器
- 通过特殊的箔片结构，易于安装 Cat 7A 连接
- 根据 CPR 分类 B2ca-s1a、d1、a1 (h/EN50575:2014+A1:2016)，具有卓越的火灾反应性能

描述

LANmark-7A 是 4 对 S/FTP 电缆，带有单独的线对箔和整体编织层，提供至少 1250MHz 但高达 1600MHz 的高频率。所有电缆均完全符合 7A 类标准，并提供高于 7A 类要求的较大余量。由于出色的电气性能和积极的 ACR，所有电缆都支持 10GBASE-T 以上的应用，包括 25GBASE-T。

应用

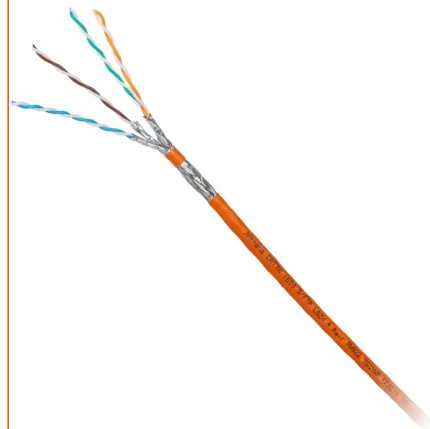
LANmark-7A 是企业市场中性能最高的标准化布线解决方案，可支持所有当前数据应用和所有计划中使用高达 FA 类布线的的应用。

- 所有以太网应用，包括
- 10/100/1000Base-T
- 1000Base-TX
- 10GBase-T
- 长达 30 米的 25GBase-T
- POE、POE+、POE++ (草案)
- 电缆共享应用，包括高达 862MHz 的 CATV
- 任何未来的 FA 类应用

安装

易于安装是 LANmark-7A 电缆的主要特点之一。我们特别注意确保在安装过程中保持屏蔽覆盖和箔片不打开。该电缆专门设计用于与 LANmark-7A GG45 12C 连接器配合使用。

为支持正确设置手持分析仪进行安装测试，电缆打印图例中给出了实际电缆 NVP 值。



STANDARDS

EN 50173
EN 50288-4-1
IEEE 802.3bt (PoE++)
ISO/IEC 11801
ISO/IEC 61156-5

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Aginode is indicative only and shall not be binding on Aginode or be treated as constituting a representation on the part of Aginode.

电气性能 LANmark-7A 1600 电缆

| Frequency (in MHz) | Attenuation (dB/10m) | | NEXT (in dB) | | ACR (in dB) | | PS-NEXT (in dB) | | ACR-F (in dB) | | TCL (in dB) | | Return Loss (in dB) | |
|-----------------------|-------------------------|---------|-----------------|-------|----------------|-------|--------------------|------|------------------|------|----------------|------|------------------------|------|
| | Max | Typical | Min | Typ | Min | Typ | Min | Typ | Min | Typ | Min | Typ | Min | Typ |
| 1.00 | 2.1 | 1.9 | 75.0 | 105.0 | 72.9 | 103.1 | 80.0 | 87.5 | 88.0 | 83.0 | 40.0 | 43.0 | 20.0 | 30.0 |
| 4.00 | 3.7 | 3.5 | 75.0 | 105.0 | 71.3 | 101.5 | 80.0 | 87.5 | 88.0 | 83.0 | 34.0 | 37.0 | 23.0 | 33.0 |
| 10.00 | 5.5 | 5.4 | 75.0 | 105.0 | 69.2 | 99.6 | 80.0 | 87.5 | 88.0 | 83.0 | 30.0 | 33.0 | 25.0 | 34.0 |
| 16.00 | 7.3 | 6.8 | 75.0 | 105.0 | 67.7 | 98.2 | 80.0 | 87.5 | 88.0 | 83.0 | 28.0 | 31.0 | 25.0 | 34.0 |
| 20.00 | 8.2 | 7.6 | 75.0 | 105.0 | 66.8 | 97.4 | 80.0 | 87.5 | 88.0 | 83.0 | 27.0 | 30.0 | 25.0 | 34.0 |
| 31.25 | 10.3 | 9.5 | 75.0 | 105.0 | 64.7 | 95.5 | 80.0 | 87.5 | 88.0 | 83.0 | 25.1 | 28.1 | 23.7 | 32.7 |
| 62.50 | 14.6 | 13.4 | 75.0 | 105.0 | 60.4 | 91.6 | 80.0 | 87.5 | 88.0 | 83.0 | 22.1 | 25.1 | 21.6 | 30.6 |
| 100.00 | 18.5 | 17.1 | 75.0 | 102.4 | 56.5 | 85.4 | 80.0 | 87.5 | 85.3 | 80.3 | 20.0 | 23.0 | 20.1 | 29.1 |
| 155.00 | 23.2 | 21.3 | 72.5 | 97.6 | 49.3 | 76.3 | 80.0 | 87.5 | 80.5 | 75.5 | 18.1 | 21.1 | 18.8 | 27.8 |
| 300.00 | 32.7 | 29.9 | 68.2 | 90.5 | 35.6 | 60.6 | 80.0 | 87.5 | 73.4 | 68.4 | 15.2 | 18.2 | 17.3 | 26.3 |
| 600.00 | 47.1 | 42.7 | 63.7 | 82.9 | 16.6 | 40.3 | 75.8 | 83.3 | 65.8 | 60.8 | 12.2 | 15.2 | 17.3 | 26.3 |
| 800.00 | 54.9 | 49.6 | 61.9 | 79.8 | 6.9 | 30.2 | 74.0 | 81.5 | 62.7 | 57.7 | 11.0 | 14.0 | 16.1 | 23.8 |
| 1000.00 | 61.9 | 55.7 | 60.4 | 77.4 | -1.5 | 21.7 | 72.5 | 80.0 | 60.3 | 55.3 | 10.0 | 13.0 | 15.1 | 21.9 |
| 1200.00 | 68.4 | 61.3 | 59.2 | 75.4 | -9.1 | 14.1 | 71.3 | 78.8 | 58.3 | 53.3 | 9.2 | 12.2 | 14.3 | 20.3 |
| 1500.00 | 77.2 | 69.0 | 57.8 | 73.0 | -19.5 | 4.0 | 69.9 | 77.4 | 55.9 | 50.9 | 8.2 | 11.2 | 13.3 | 18.3 |
| 1600.00 | 80.0 | 71.4 | 57.3 | 72.3 | -22.7 | 0.9 | 69.4 | 76.9 | 55.2 | 50.2 | 8.0 | 11.0 | 13.0 | 17.8 |

Internal Description UK MRO 130903 Electrical Performance LM7A 1600

Title Electrical Performance LANmark-7A 1600 Cable

Description Typical Electrical Performance LANmark-7A 1600 Cable
Maximum/Minimum requirements according to IEC61156-9 NP Draft 2013

Comment

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Characteristics

结构特性

| | |
|------|----------|
| 加蔽线 | 无 |
| 无铅 | Yes |
| 外护套 | 低烟无卤 |
| 屏蔽 | 铝箔+镀锡铜编织 |
| 护套颜色 | 橙 |
| 电缆类型 | S/FTP |

尺寸特性

| | |
|---------------|----------|
| 近似重量 | 78 kg/km |
| 导体横截面尺寸 (AWG) | 22 |
| 绝缘外径 | 1.53 mm |
| 标称外径 | 8.3 mm |
| 线对数 | 4 |

电气特性

| | |
|----------------|-----------|
| 特性阻抗 | 100 Ohm |
| 20°C时导体的最大直流电阻 | 85 Ohm/km |
| 最大转移阻抗在30MHz | 50 Ohm/km |
| 互电容 | 45 nF/km |

机械特性

| | |
|----------|-------|
| 最大操作抗拉强度 | 100 N |
|----------|-------|

传输特性

| | |
|-----------------|-------------|
| 耦合衰减在30MHz | >85 dB |
| 传播速度 | 76 % |
| 传播延迟值, 最大100MHz | 536 ns/100m |
| 时延值 | 25 ns/100m |

使用特性

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| | |
|-------------|--------------------------|
| 环境安装温度, 范围 | 0...50 °C |
| 类型 | Cat. 7A |
| 阻燃 | IEC 60332-3-24 (cat C) |
| 阻燃 - 火焰 | IEC 60332-1 |
| 气体腐蚀性 | IEC 60754-1; IEC 60754-2 |
| 长度 | 1000 m |
| 最小弯曲半径 - 安装 | 69 mm |
| 最小弯曲半径 - 工作 | 34 mm |
| 操作温度, 范围 | -20...60 °C |
| 包装 | 电缆盘 |
| 范围 | LANmark-7A |
| 烟密度 | IEC 61034-2 |

文件

Freetable LM7A 1600.xls xls — 35 KB [下载](#) ↓

业绩声明

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