

# LANmark-7 Cable

LANMARK-7 S/FTP AWG23 CAT 7 LSZH DCA S2 D1 A1 ORANGE 500M REEL

**Aginode Ref:** N100.366-OD

- S/FTP cable with individually shielded pairs and global braid
- Exceeds Category 7 ACR with >30dB
- Optimised for use with LANmark-7A GG45 connector
- Easy to install

## Description

LANmark-7 cable has an S/FTP construction with individual pair foils and an overall braid offering superior performance in terms of ACR. It is fully compliant with the Category 7 standards and when installed together with the GG45 LANmark-7A connector, the system is guaranteed to exceed all channel requirements in all configuration scenarios (up to 4-connector channels).

## Application

LANmark-7 will support all current and planned data applications developed for cabling up to Class F.

- All Ethernet applications including
- 1000Base-T
- 1000Base-TX
- 10GBase-T
- CATV up to 862MHz
- Any future Class F application

## Installation

Ease of Installation is one of the unique features of LANmark-7 cable. Extra attention has been paid to ensure screen coverage is maintained both during and after installation. The cable has been designed specifically to offer both optimum performance and ease of termination when used in conjunction with the LANmark-7A GG45 connector.

To support the correct set-up of hand held analysers for installation testing, the actual cable NVP value is given in the cable's print legend.

## Electrical Performance LANmark-7 Cable



## 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.

| Frequency<br>(MHz) | Attenuation<br>(dB/100m) |      | NEXT<br>(in dB) |       | ACR<br>(in dB) |      | PS-NEXT<br>(in dB) |      | ACR-F<br>(in dB) |      | PS-ACR-F<br>(in dB) |      | Return Loss<br>(in dB) |      |
|--------------------|--------------------------|------|-----------------|-------|----------------|------|--------------------|------|------------------|------|---------------------|------|------------------------|------|
|                    | Max.                     | Typ. | Min.            | Typ.  | Min.           | Typ. | Min.               | Typ. | Min.             | Typ. | Min.                | Typ. | Min.                   | Typ. |
| 1.00               | 4.0                      | 1.8  | 75.0            | 100.0 | 71.0           | 98.2 | 72.0               | 98.0 | 75.0             | 98.0 | 75.0                | 96.0 | 20.0                   |      |
| 4.00               | 4.0                      | 3.5  | 75.0            | 100.0 | 71.0           | 96.5 | 72.0               | 98.0 | 75.0             | 98.0 | 75.0                | 96.0 | 23.0                   | 26.0 |
| 10.00              | 5.9                      | 5.5  | 75.0            | 100.0 | 69.1           | 94.5 | 72.0               | 98.0 | 75.0             | 98.0 | 72.3                | 96.0 | 25.0                   | 28.0 |
| 16.00              | 7.4                      | 6.8  | 75.0            | 100.0 | 67.6           | 93.2 | 72.0               | 98.0 | 71.2             | 96.0 | 68.2                | 94.0 | 25.0                   | 28.0 |
| 20.00              | 8.3                      | 7.7  | 75.0            | 100.0 | 66.7           | 92.3 | 72.0               | 98.0 | 69.3             | 94.0 | 66.3                | 92.0 | 25.0                   | 28.0 |
| 31.25              | 10.4                     | 9.6  | 75.0            | 100.0 | 64.8           | 90.4 | 72.0               | 98.0 | 65.4             | 90.0 | 62.4                | 88.0 | 23.6                   | 26.0 |
| 42.50              | 14.9                     | 14.0 | 75.0            | 100.0 | 60.1           | 86.0 | 72.0               | 98.0 | 59.4             | 84.0 | 56.4                | 82.0 | 21.5                   | 25.0 |
| 100.00             | 19.0                     | 17.7 | 72.4            | 100.0 | 53.4           | 82.3 | 69.4               | 98.0 | 55.3             | 75.0 | 52.3                | 73.0 | 20.1                   | 24.0 |
| 155.00             | 24.0                     | 22.8 | 69.5            | 96.0  | 45.6           | 73.2 | 66.5               | 93.0 | 51.5             | 70.0 | 48.5                | 68.0 | 18.8                   | 23.0 |
| 250.00             | 31.0                     | 29.0 | 66.4            | 94.0  | 35.5           | 65.0 | 63.4               | 91.0 | 47.3             | 66.0 | 44.3                | 64.0 | 17.3                   | 22.0 |
| 300.00             | 34.2                     | 32.1 | 65.2            | 92.0  | 31.1           | 59.9 | 62.2               | 88.0 | 45.8             | 54.0 | 42.8                | 62.0 | 17.3                   | 20.0 |
| 600.00             | 50.1                     | 45.5 | 60.7            | 90.0  | 10.6           | 44.5 | 57.7               | 86.0 | 39.7             | 54.0 | 36.7                | 62.0 | 17.3                   | 20.0 |

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# LANmark-7 S/FTP AWG23 Cat 7 LSZH Dca s2 d1 a1 Orange

## 500m reel

### Characteristics

#### 구조적 특성

|               |                         |
|---------------|-------------------------|
| 스크린           | 알루미늄 호일 + 주석 도금 구리 브레이드 |
| 피복            | 저연 할로겐 프리               |
| Sheath colour | 주황색                     |
| Lead free     | Yes                     |
| Type of cable | S/FTP                   |
| Drain wire    | 없음                      |

#### 치수

|                                     |          |
|-------------------------------------|----------|
| 무게(근사치)                             | 50 kg/km |
| Number of pairs                     | 4        |
| Conductor cross-section (AWG/KCMIL) | 23       |
| Diameter over insulation            | 1.42 mm  |
| Nominal outer diameter (mm)         | 7.2 mm   |

#### 전기적 특성

|  |           |
|--|-----------|
| Mutual capacitance                         | 45 nF/km  |
| Characteristic impedance                   | 100 Ohm   |
| Max. transfer impedance at 30 MHz (Ohm/km) | 50 Ohm/km |
| 20° C에서 최대 도체 DC저항                         | 80 Ohm/km |

#### 기계적 특성

|                                 |       |
|---------------------------------|-------|
| Maximum operating pulling force | 100 N |
|---------------------------------|-------|

#### Transmission characteristics

|                                       |             |
|---------------------------------------|-------------|
| Skew                                  | 25 ns/100m  |
| Nominal Velocity of Propagation (NVP) | 82 %        |
| Coupling attenuation at 30 MHz        | >85 dB      |
| Propagation delay, max. 100 MHz       | 536 ns/100m |

#### 사용 특성

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|   |                          |
|---|--------------------------|
| Range                                   | LANmark-7                |
| Gases corrosivity                       | IEC 60754-1; IEC 60754-2 |
| Length                                  | 500 m                    |
| 操作温度范围                                  | -20...60 °C              |
| Category                                | Cat. 7                   |
| 난연                                      | IEC 60332-1              |
| 연기밀도                                    | IEC 61034-2              |
| Packaging                               | Reel                     |
| Ambient installation temperature, range | -10...60 °C              |
| 최소 굽힘 반지름 - 설치시 (장력작용)                  | 56 mm                    |
| 최소 굽힘 반지름 - 설치 후                        | 28 mm                    |

## 문서

Freetable LM7 600\_3.xls xls — 19 KB [다운로드](#) ↓

## 성과 선언

LANmark-7 S/FTP AWG23 Cat 7 LSZH Dca s2 d1 a1 Orange 500m reel pdf — 141.11 KB [다운로드](#) ↓