

# LANmark-7A Patch Cords

CAT7A MEASUREMENT CORD GG45 8C LSZH ORANGE 2M

**Aginode Ref:** N900.67A

- High bandwidth patch cord for 25 Gigabit applications and beyond
- Runs the GG45 '2in1' Connector in its high speed GG-Mode
- Use GG45 8 Contact Plugs according IEC61076-3-110
- Allow full 4-connector Class FA channels
- Compatible with High Density requirements in Data Centres

## Description

Aginode LANmark-7A patch cords with GG45 8C non-switched plugs enable a GG45 7A permanent link to be used in 1000 MHz mode. The protruding part on the plug activates the switch within the GG45 7A “2in1” jack and terminates the none used contacts of RJ45 to ground. Using the contacts in the extreme outer corners of the GG45 interface for transmission, excellent NEXT and Return Loss performances are achieved.

Aginode LANmark-7A patch cords maximise the full performance of the channel and will exceed the requirements of the ISO 4 connector model. This provides improved data throughput up to 1000 MHz and allows for the inclusion of additional patching or Consolidation Points for maximum system flexibility and all future data applications according ISO 11801.

- High Speed patch cords
- Individually screened pairs in cable and plug
- High Speed Plug with Look and Feel of a RJ45 plug (just using different contact positions)
- 2 x GG45 8C 4-pair or GG45 8C to RJ45 (Conversion Cords)
- Orange color, different colors available on request

## Guarantees

- Reliable connections over the lifetime of the cabling system.
- Compatible with IEC 61076-3-110



## STANDARDS

ISO/IEC 11801

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.

- Compatible with Class F and Class FA standards (ISO 11801:2008)

## Installation

- Self-latching, high reliability GG45 (IEC61076-3-110) screened connectors
- Sidebars on the plug avoid errors by using the patch cord for RJ45 jacks
- Low Smoke Halogen Free - Flame Retardant cable jacket
- 1, 2, 3 and 5m lengths on stock ,others lengths available on request
- 10m and 20m offered for consolidation points (cut to length)

## LANmark-7A Class FA 4-connector Channel performance

| Frequency (in MHz) | Attenuation (in dB/100m) |         | NEXT pp (in dB) |         | ACR-F (in dB) |         | RL (in dB) |         | Coupling Att. (in dB) |         | PSANEXT (in dB) |         | PSAFEXT (in dB) |         |
|--------------------|--------------------------|---------|-----------------|---------|---------------|---------|------------|---------|-----------------------|---------|-----------------|---------|-----------------|---------|
|                    | Std Max                  | Typical | Std Min         | Typical | Std Min       | Typical | Std Min    | Typical | Std Min               | Typical | Std Min         | Typical | Std Min         | Typical |
| 1                  | 4.0                      | 4.0     | 65.0            | 104.8   | 65.0          | 70.0    | 19.0       | 38.0    | 80.0                  | 106.0   | 67.0            | 92.4    | 80.0            | 83.0    |
| 4                  | 4.1                      | 4.0     | 65.0            | 94.5    | 65.0          | 70.0    | 19.0       | 32.0    | 68.0                  | 94.0    | 67.0            | 82.1    | 79.8            | 82.8    |
| 10                 | 6.4                      | 6.3     | 65.0            | 87.8    | 65.0          | 70.0    | 19.0       | 28.0    | 60.0                  | 86.0    | 67.0            | 81.0    | 75.9            | 78.5    |
| 16                 | 8.0                      | 7.9     | 65.0            | 84.2    | 63.3          | 68.3    | 18.0       | 26.0    | 55.9                  | 81.9    | 67.0            | 80.0    | 73.9            | 76.5    |
| 20                 | 9.0                      | 8.9     | 65.0            | 82.5    | 61.4          | 66.4    | 17.5       | 25.0    | 54.0                  | 80.0    | 67.0            | 80.4    | 72.9            | 75.5    |
| 31.25              | 11.2                     | 11.1    | 65.0            | 79.1    | 57.5          | 62.5    | 16.5       | 23.1    | 50.1                  | 76.1    | 67.0            | 80.0    | 71.0            | 74.0    |
| 62.5               | 15.9                     | 15.6    | 65.0            | 73.7    | 51.5          | 56.5    | 14.0       | 20.0    | 44.1                  | 70.1    | 67.0            | 85.3    | 68.0            | 71.0    |
| 100                | 20.3                     | 19.7    | 65.0            | 70.0    | 47.4          | 52.4    | 12.0       | 18.0    | 40.0                  | 66.0    | 67.0            | 81.1    | 65.5            | 68.5    |
| 155                | 25.4                     | 24.5    | 63.0            | 66.6    | 43.6          | 48.6    | 10.1       | 16.1    | 36.2                  | 62.2    | 67.0            | 80.8    | 63.9            | 66.5    |
| 200                | 28.9                     | 27.9    | 60.9            | 64.6    | 41.4          | 46.4    | 9.0        | 15.0    | 34.0                  | 60.0    | 67.0            | 79.4    | 62.9            | 65.9    |
| 250                | 32.5                     | 31.2    | 59.1            | 62.8    | 39.4          | 44.4    | 8.0        | 14.0    | 32.0                  | 58.0    | 67.0            | 78.1    | 61.8            | 64.8    |
| 300                | 35.7                     | 34.1    | 57.7            | 61.3    | 37.8          | 42.8    | 8.0        | 13.2    | 30.5                  | 56.5    | 67.0            | 77.1    | 60.9            | 63.9    |
| 500                | 46.7                     | 44.1    | 53.6            | 57.2    | 33.4          | 38.4    | 8.0        | 11.0    | 26.0                  | 52.0    | 64.5            | 75.0    | 58.6            | 61.6    |
| 600                | 51.4                     | 48.3    | 52.1            | 55.8    | 31.9          | 36.9    | 8.0        | 10.2    | 24.4                  | 50.4    | 63.3            | 75.0    | 57.8            | 60.8    |
| 700                | 55.8                     | 52.1    | 50.8            | 54.5    | 30.5          | 35.5    | 7.5        | 9.5     | 23.1                  | 49.1    | 62.3            | 75.0    | 57.1            | 60.1    |
| 800                | 59.9                     | 55.7    | 49.7            | 53.5    | 29.3          | 34.3    | 7.0        | 9.0     | 21.9                  | 47.9    | 61.5            | 75.0    | 56.4            | 59.4    |
| 900                | 63.8                     | 59.1    | 48.8            | 52.5    | 28.3          | 33.3    | 6.5        | 8.5     | 20.9                  | 46.9    | 60.7            | 74.0    | 55.9            | 58.9    |
| 1000               | 67.6                     | 62.3    | 47.9            | 51.6    | 27.4          | 32.4    | 6.0        | 8.0     | 20.0                  | 46.0    | 60.0            | 73.0    | 55.4            | 58.4    |
| 1250               |                          | 70.0    |                 | 42.0    |               | 25.0    |            | 8.0     |                       | 40.0    |                 | 70.0    |                 | 50.0    |

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# CAT7A Measurement Cord GG45 8C LSZH Orange 2m

## Characteristics

### Construction characteristics

|              |         |
|--------------|---------|
| Colour       | Orange  |
| Screen       | S-FTP   |
| Outer sheath | LSZH-FR |

### Dimensional characteristics

|                             |         |
|-----------------------------|---------|
| Nominal outer diameter (mm) | 6.35 mm |
|-----------------------------|---------|

### Electrical characteristics

|                          |         |
|--------------------------|---------|
| Characteristic impedance | 100 Ohm |
|--------------------------|---------|

### Usage characteristics

|                               |               |
|-------------------------------|---------------|
| Range                         | LANmark-7A    |
| Length                        | 2 m           |
| Fire retardant                | IEC 60332-1-2 |
| Category                      | Cat. 7A       |
| Mechanical durability/matings | 1000          |

## Documentation

[Freetable LM7A Channel - 1250.xls xls](#) — 24 KB [Download](#) ↓