



**Nexans art.nr.:** N101.23ARO  
**El.nr.:** 6916965

- Høy båndbredde patchesnor for 25 Gigabit-applikasjoner og utover
- Kjører GG45 '2in1' -kontakten i sin høyhastighets GG-modus
- Bruk GG45 8 kontaktp lugger i henhold til IEC61076-3-110
- Tillat fulle 4-kontakt klasse FA-kanaler
- Kompatibel med høytetthets krav i datasentre

### STANDARDS

Internasjonal ISO/IEC 11801

### DESCRIPTION

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.

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
- 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)



Brannbegrensende  
IEC 60332-1

### KARAKTERISTIKKER

#### Konstruksjonsegenskaper

|            |         |
|------------|---------|
| Farge      | Orange  |
| Skjerm     | S-FTP   |
| Ytre kappe | LSZH-FR |

#### Dimensjonsegenskaper

|                        |         |
|------------------------|---------|
| Nominell ytre diameter | 6,35 mm |
|------------------------|---------|

#### Elektriske egenskaper

|                         |         |
|-------------------------|---------|
| Karakteristisk impedans | 100 Ohm |
|-------------------------|---------|

#### Transmisjonsegenskaper

|                             |           |
|-----------------------------|-----------|
| Maksimal dempning v/100 MHz | - dB/100m |
|-----------------------------|-----------|

#### Bruksegenskaper

|                                      |             |
|--------------------------------------|-------------|
| Brannbegrensende                     | IEC 60332-1 |
| Kategori                             | Cat. 7A     |
| Mekanisk levetid/koblingsoperasjoner | 750         |
| Område                               | LANmark-7A  |
| Standardlengde                       | 20 m        |

| Frequency<br>(in MHz) | Attenuation<br>(in dB/100m) |         | NEXT pp<br>(in dB) |         | ACR-F<br>(in dB) |         | RL<br>(in dB) |         | Coupling Att.<br>(in dB) |         | PSANEXT<br>(in dB) |         | PSAFEXT<br>(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               | 94,6    | 65,0             | 70,0    | 19,0          | 32,0    | 68,0                     | 94,0    | 67,0               | 92,1    | 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               | 91,0    | 75,9               | 78,9    |
| 16                    | 8,0                         | 7,9     | 65,0               | 84,2    | 63,3             | 68,3    | 18,0          | 26,0    | 55,9                     | 81,9    | 67,0               | 90,0    | 73,9               | 76,9    |
| 20                    | 9,0                         | 8,9     | 65,0               | 82,5    | 61,4             | 66,4    | 17,5          | 25,0    | 54,0                     | 80,0    | 67,0               | 89,4    | 72,9               | 75,9    |
| 31,25                 | 11,2                        | 11,1    | 65,0               | 79,1    | 57,5             | 62,5    | 16,5          | 23,1    | 50,1                     | 76,1    | 67,0               | 88,0    | 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               | 83,1    | 65,9               | 68,9    |
| 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               | 66,9    |
| 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    | 62,8               | 65,8    |
| 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    | 31,8             | 36,8    | 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    |

|                |                                                                                                   |      |  |  |  |  |  |  |  |  |  |  |      |
|----------------|---------------------------------------------------------------------------------------------------|------|--|--|--|--|--|--|--|--|--|--|------|
| Internal Title | Electrical Performance LANmark-7A 1250MHz V2                                                      |      |  |  |  |  |  |  |  |  |  |  |      |
| Title          | Electrical Performance LANmark-7A Channel 1250MHz                                                 |      |  |  |  |  |  |  |  |  |  |  |      |
| Description    | All values are based on Worst Case 4 Connector Channel configurations according ISO11801:2008 AM1 |      |  |  |  |  |  |  |  |  |  |  |      |
| Comment        | Standard Values according ISO11801 ClassFA                                                        |      |  |  |  |  |  |  |  |  |  |  |      |
| IL Formula     | 1000                                                                                              | 67,6 |  |  |  |  |  |  |  |  |  |  | 62,3 |