

## Features

- Up to 25.78125 Gbps data rate
- Up to 5 meter transmission
- Hot-pluggable SFP 20PIN footprint
- Improved Pluggable Form Factor(IPF) compliant for enhanced EMI/EMC performance
- Compatible to SFP28 MSA
- Compatible to SFF-8402 and SFF-8432
- Temperature Range: 0~ 70°C
- RoHS Compatible



## Benefits

- Cost-effective copper solution
- Lowest total system power solution

- Lowest total system EMI solution
- Optimized design for Signal Integrity

## Applications

- 25G Ethernet

## 1. High Speed Characteristics

| Parameter                                     | Symbol  | Min.  | Typ. | Max.  | Unit     | Note                 |
|-----------------------------------------------|---------|-------|------|-------|----------|----------------------|
| Differential Impedance                        | RIN,P-P | 90    | 100  | 110   | $\Omega$ |                      |
| Insertion loss                                | SDD21   | 8     |      | 22.48 | dB       | At 12.8906 GHz       |
| Differential Return Loss                      | SDD11   | 12.45 |      | See 1 | dB       | At 0.05 to 4.1 GHz   |
|                                               | SDD22   | 3.12  |      | See 2 | dB       | At 4.1 to 19 GHz     |
| Common-mode to common-mode output return loss | SCC11   | 2     |      |       | dB       | At 0.2 to 19 GHz     |
|                                               | SCC22   |       |      |       |          |                      |
| Differential to common-mode return loss       | SCD11   | 12    |      | See 3 | dB       | At 0.01 to 12.89 GHz |
|                                               | SCD22   | 10.58 |      | See 4 |          | At 12.89 to 19 GHz   |

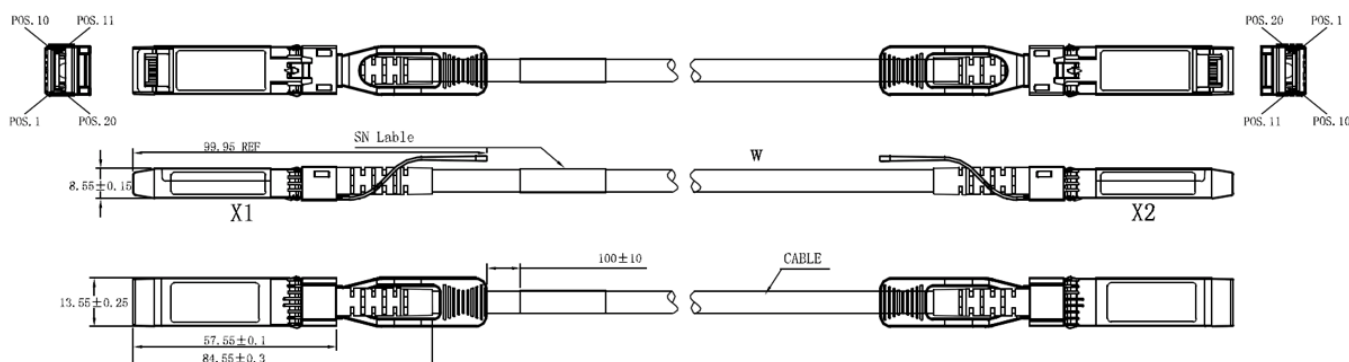
|                                             |          |     |  |       |    |                      |
|---------------------------------------------|----------|-----|--|-------|----|----------------------|
| Differential to common Mode Conversion Loss | SCD21-IL | 10  |  |       |    | At 0.01 to 12.89 GHz |
|                                             |          |     |  | See 5 | dB | At 12.89 to 15.7 GHz |
|                                             |          | 6.3 |  |       |    | At 15.7 to 19 GHz    |
| Channel Operating Margin                    | COM      | 3   |  |       | dB |                      |

## Notes:

1. Reflection Coefficient given by equation  $SDD11(dB) < 16.5 - 2 \times \sqrt{f}$ , with f in GHz
2. Reflection Coefficient given by equation  $SDD11(dB) < 10.66 - 14 \times \log_{10}(f/5.5)$ , with f in GHz
3. Reflection Coefficient given by equation  $SCD11(dB) < 22 - (20/25.78) \times f$ , with f in GHz
4. Reflection Coefficient given by equation  $SCD11(dB) < 15 - (6/25.78) \times f$ , with f in GHz
5. Reflection Coefficient given by equation  $SCD21(dB) < 27 - (29/22) \times f$ , with f in GHz

## 2. Mechanical Specifications

The connector is compatible with the SFF-8432 specification.



**Note:** External physical characteristics are subject to variation. This may include, but is not limited to, external case designs, pull tab colors and/or shapes, removal latch styles or colors, and label sizes and placement. These variations do not affect the function or characteristics of the transceivers.

## 3. Ordering Information

| OEM      | Part Number        | OEM      | Part Number              |
|----------|--------------------|----------|--------------------------|
| Amphenol | NDCCGF-0006-A      | Amphenol | SFP-25GB-DACP-AP-AM-50-A |
| Amphenol | NDCCGF-0001-A      | Amphenol | NDCCGJ-0001-A            |
| Amphenol | NDCCGF-0002-1.5M-A | Amphenol | SFP-25GB-DACP-AP-AM-15-A |
| Amphenol | NDCCGF-0002-A      | Amphenol | NDCCGJ-0002-A            |
| Amphenol | NDCCGF-0004-A      | Amphenol | NDCCGJ-0008-A            |
| Amphenol | NDCCGF-0005-A      | Amphenol | NDCCGJ-0003-A            |
| Amphenol | NDCCGJ-0004-A      | Amphenol | SFP-25GB-DACP-AP-AM-4M-A |

|                 |                         |                 |                          |
|-----------------|-------------------------|-----------------|--------------------------|
| Amphenol        | NDCCGJ-0005-A           | Amphenol        | SFP-25GB-DACP-AP-AM-5M-A |
| Arista          | CAB-S-S-25G-50CM-A      | Arista          | CAB-S-S-25G-1M-A         |
| Arista          | CAB-S-S-25G-1.5M-A      | Arista          | CAB-S-S-25G-2M-A         |
| Arista          | CAB-S-S-25G-2.5M-A      | Arista          | CAB-S-S-25G-3M-A         |
| Arista          | CAB-S-S-25G-4M-A        | Arista          | CAB-S-S-25G-5M-A         |
| Broadcom        | SFP-25G-P-50CM-BC-A     | Broadcom        | SFP-25G-P-1M-BC-A        |
| Broadcom        | SFP-25G-P-1.5M-BC-A     | Broadcom        | SFP-25G-P-2M-BC-A        |
| Broadcom        | SFP-25G-P-2.5M-BC-A     | Broadcom        | SFP-25G-P-3M-BC-A        |
| Broadcom        | SFP-25G-P-4M-BC-A       | Broadcom        | SFP-25G-P-5M-BC-A        |
| Broadcom/Lenovo | 7Z57A03557-0.5M-A       | Broadcom/Lenovo | 7Z57A03557-A             |
| Broadcom/Lenovo | 7Z57A03557-1.5M-A       | Broadcom/Lenovo | 7Z57A03557-2M-A          |
| Broadcom/Lenovo | 7Z57A03557-2.5M-A       | Broadcom/Lenovo | 7Z57A03558-A             |
| Broadcom/Lenovo | 7Z57A03558-4M-A         | Broadcom/Lenovo | 7Z57A03559-A             |
| Brocade         | 25G-SFP28-TWX-P-5001-A  | Brocade         | 25G-SFP28-TWX-P-0101-A   |
| Brocade         | 25G-SFP28-TWX-P-0151-A  | Brocade         | 25G-SFP28-TWX-P-0201-A   |
| Brocade         | 25G-SFP28-TWX-P-0251-A  | Brocade         | 25G-SFP28-TWX-P-0301-A   |
| Brocade         | 25G-SFP28-TWX-P-0401-A  | Brocade         | 25G-SFP28-TWX-P-0501-A   |
| Cisco           | SFP-H25G-CU50CM-A       | Cisco           | SFP-H25G-CU1M-A          |
| Cisco           | SFP-H25G-CU1.5M-A       | Cisco           | SFP-H25G-CU2M-A          |
| Cisco           | SFP-H25G-CU2.5M-A       | Cisco           | SFP-H25G-CU3M-A          |
| Cisco           | SFP-H25G-CU4M-A         | Cisco           | SFP-H25G-CU5M-A          |
| Cisco           | SFP-H25G-CU1M-C1        | Dell            | 470-ACEX-50CM-A          |
| Cisco           | SFP-H25G-CU2M-C1        | Dell            | 470-ACFB-A               |
| Dell            | 470-ACEX-A              | Dell            | 470-ACEU-A               |
| Dell            | 470-AENE-A              | Dell            | 470-ACEY-A               |
| Dell            | 470-ACFB-2.5M-A         | Edgecore        | ET7302-DAC-1M-A          |
| Dell            | 470-ACEU-4M-A           | Edgecore        | ET7302-DAC-2M-A          |
| Edgecore        | ET7302-DAC-50CM-A       | Edgecore        | ET7302-DAC-3M-A          |
| Edgecore        | ET7302-DAC-1.5M-A       | Edgecore        | ET7302-DAC-5M-A          |
| Edgecore        | ET7302-DAC-2.5M-A       | Edgecore        | ET7302-DAC-4M-A          |
| Extreme         | 25G-SFP28-TWX-P-0101-C1 | Intel           | XXVDACBL1M-A             |
| Intel           | XXVDACBL50CM-A          | Intel           | XXVDACBL2M-A             |
| Intel           | XXVDACBL1.5M-A          | Intel           | XXVDACBL3M-A             |
| Intel           | XXVDACBL2.5M-A          | Intel           | XXVDACBL5M-A             |
| Intel           | XXVDACBL4M-A            | Molex           | SFP-25GB-DACP-AP-MO-50-A |
| Molex           | 1111451051-A            | Molex           | SFP-25GB-DACP-AP-MO-1M-A |
| Molex           | 1111451101-A            | Molex           | SFP-25GB-DACP-AP-MO-15-A |
| Molex           | 1111451101-1.5M-A       | Molex           | 1111453201-A             |
| Molex           | 1111451201-A            | Molex           | 1111453301-A             |

|        |                        |        |                          |
|--------|------------------------|--------|--------------------------|
| Molex  | 1111451251-A           | Molex  | SFP-25GB-DACP-AP-MO-4M-A |
| Molex  | 1111451301-A           | Molex  | SFP-25GB-DACP-AP-MO-5M-A |
| Molex  | 1111453401-A           | MSA    | CAB-SFP-25G-DACP-0.5M-C1 |
| MSA    | CAB-SFP-25G-DACP-3M-C1 | Siemon | S1S28P301.0-01-A         |
| Siemon | S1S28P300.5-01-A       | Siemon | S1S28P302.0-01-A         |
| Siemon | S1S28P301.5-01-A       | Siemon | S1S28P263.0-01-A         |
| Siemon | S1S28P262.5-01-A       | Siemon | S1S28P265.0-01-A         |
| Siemon | S1S28P264.0-01-A       |        |                          |

#### 4. Contact Information

Tel: 800.590.9535

Web: <http://www.approvednetworks.com>