

## Features:

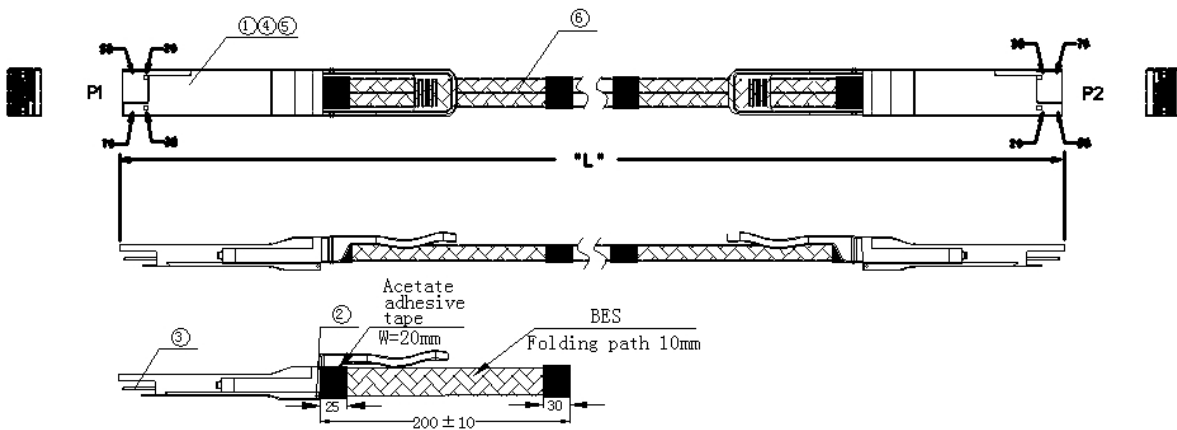
- Operating case temperature: 0~70°C
- Compliant with IEEE 802.3bj/IEEE 802.3c
- Compliant with QSFP DD MSA
- RoHS compliant

## Applications:

- Servers
- Switches
- Routers
- Data centers
- High performance computing



## 1. Outline Drawing



**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.

## 2. Wiring Diagram

P1			P2	
GND	1		20	GND
TX2-	<b>2</b>	↔	<b>21</b>	RX2-
TX2+	<b>3</b>	↔	<b>22</b>	RX2+
GND	4		23	GND
TX4-	<b>5</b>	↔	<b>24</b>	RX4-
TX4+	<b>6</b>	↔	<b>25</b>	RX4+
GND	7		26	GND
ModPrsL	8		27	ModPrsL
ReseFL	9		28	InFL
VccRa	10		29	VccTx
SCL	11		30	VccI
SDA	12		31	InFLMode
GND	13		32	GND
RX3+	<b>14</b>	↔	<b>33</b>	TX3+
RX3-	<b>15</b>	↔	<b>34</b>	TX3-
GND	16		35	GND
RX1+	<b>17</b>	↔	<b>36</b>	TX1+
RX1-	<b>18</b>	↔	<b>37</b>	TX1-
GND	19		38	GND
GND	20		1	GND
RX2-	<b>21</b>	↔	<b>2</b>	TX2-
RX2+	<b>22</b>	↔	<b>3</b>	TX2+
GND	23		4	GND
RX4-	<b>24</b>	↔	<b>5</b>	TX4-
RX4+	<b>25</b>	↔	<b>6</b>	TX4+
GND	26		7	GND
ModPrsL	27		8	ModPrsL
InFL	28		9	ReseFL
VccTx	29		10	VccRa
VccI	30		11	SCL
InFLMode	31		12	SDA
GND	32		13	GND
TX3+	<b>33</b>	↔	<b>14</b>	RX3+
TX3-	<b>34</b>	↔	<b>15</b>	RX3-
GND	35		16	GND
TX1+	<b>36</b>	↔	<b>17</b>	RX1+
TX1-	<b>37</b>	↔	<b>18</b>	RX1-
GND	38		19	GND

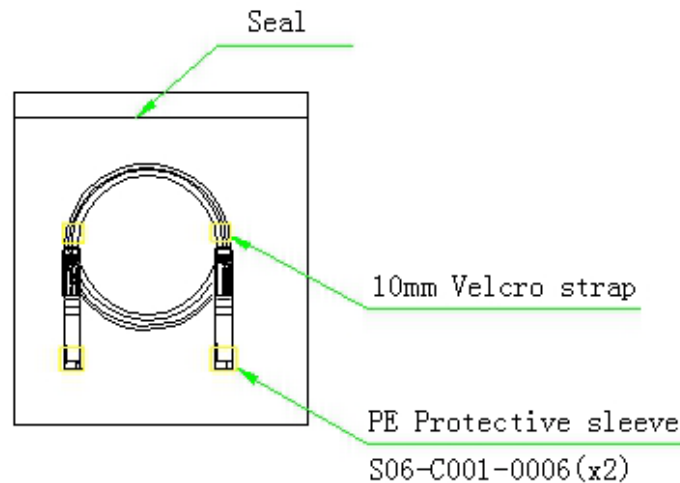
P1			P2	
GND	39		58	GND
TX6-	<b>40</b>	↔	<b>59</b>	RX6-
TX6+	<b>41</b>	↔	<b>60</b>	RX6+
GND	42		61	GND
TX8-	<b>43</b>	↔	<b>62</b>	RX8-
TX8+	<b>44</b>	↔	<b>63</b>	RX8+
GND	45		64	GND
Reserved	46		65	NC
VS1	47		66	Reserved
VccRx1	48		67	VccTx1
VS2	49		68	Vcc2
VS3	50		69	Reserved
GND	51		70	GND
RX7+	<b>52</b>	↔	<b>71</b>	TX7+
RX7-	<b>53</b>	↔	<b>72</b>	TX7-
GND	54		73	GND
RX5+	<b>55</b>	↔	<b>74</b>	TX5+
RX5-	<b>56</b>	↔	<b>75</b>	TX5-
GND	57		76	GND
GND	58		39	GND
RX6-	<b>59</b>	↔	<b>40</b>	TX6-
RX6+	<b>60</b>	↔	<b>41</b>	TX6+
GND	61		42	GND
RX8-	<b>62</b>	↔	<b>43</b>	TX8-
RX8+	<b>63</b>	↔	<b>44</b>	TX8+
GND	64		45	GND
NC	65		46	Reserved
Reserved	66		47	VS1
VccTx1	67		48	VccRx1
Vcc2	68		49	VS2
Reserved	69		50	VS3
GND	70		51	GND
TX7+	<b>71</b>	↔	<b>52</b>	RX7+
TX7-	<b>72</b>	↔	<b>53</b>	RX7-
GND	73		54	GND
TX5+	<b>74</b>	↔	<b>55</b>	RX5+
TX5-	<b>75</b>	↔	<b>56</b>	RX5-
GND	76		57	GND

## 3. Environment Performance

Item	Requirement	Test Conditon
Operating Temp. Range	-20°C to +75°C	Cable operating temperature range.
Storage Temp. Range (in packed condition)	-40°C to +80°C	Cable storage temperature range in packed condition.
Thermal Cycling Non-Powered	No evidence of physical damage	EIA-364-32D, Method A, -25 to 90C, 100 cycles, 15 min. dwells
Salt Spraying	48 hours salt spraying after shell corrosive area less than 5%.	EIA-364-26
Mixed Flowing Gas	Pass electrical tests per 3.1 after stressing. (For connector only)	EIA-364-35 Class II,14 days.
Temp. Life	No evidence of physical damage	EIA-364-17C w/ RH, Damp heat 90°C at 85% RH for 500 hours then return to ambient
Cable Cold Bend	4H, No evidence of physical damage	Condition: -20°C±2°C, mandrel diameter is 6 times the cable diameter.

## 4. Packaging and Marking:

- The connectors at both ends are protected by protective sleeves, and each put into a silver gray anti-static bag.
- Put a label in the middle of the silver gray anti-static bag.



## 5. Ordering Information

OEM	Part Number	OEM	Part Number
Amphenol	NDYYYYR0006-A	Juniper	QDD-400G-DAC-1.5M-A
Amphenol	NDYYYYF0001-A	Juniper	QDD-400G-DAC-2M-A
Amphenol	NDYYYYF0004-A	Juniper	QDD-400G-DAC-2P5M-A
Amphenol	NDYYYYH0002-A	Mellanox	MCP1660-W00AE30-A
Amphenol	NDYYYYH0005-A	Mellanox	MCP1660-W001E30-A
Arista	CAB-D-D-400G-50CM-A	Mellanox	MCP1660-W01AE30-A
Arista	CAB-D-D-400G-1M-A	Mellanox	MCP1660-W002E26-A
Arista	CAB-D-D-400G-1.5M-A	Mellanox	MCP1660-W02AE26-A
Arista	CAB-D-D-400G-2M-A	Molex	2015911005-A
Arista	CAB-D-D-400G-2.5M-A	Molex	2015911010-A
Cisco	QDD-400-CU50CM-A	Molex	2015911015-A
Cisco	QDD-400-CU1M-A	Molex	NA-2M-20159110XX-A
Cisco	QDD-400-CU1.5M-A	Molex	NA-2.5M-20159110XX-A
Cisco	QDD-400-CU2M-A	Molex	NA-50CM-20159130XX-A
Cisco	QDD-400-CU2.5M-A	Molex	NA-1M-20159130XX-A
Dell	DAC-Q56DD-400G-50CM-A	Molex	2015913015-A
Dell	DAC-Q56DD-400G-1M-A	Molex	2015913020-A
Dell	DAC-Q56DD-400G-1.5M-A	Molex	2015913025-A

Dell	DAC-Q56DD-400G-2M-A	MSA Champion ONE	400GQSFPDD-DA01
Dell	DAC-Q56DD-400G-2.5M-A	MSA Champion ONE	400GQSFPDD-DA02
Juniper	QDD-400G-DAC-50CM-A	MSA Champion ONE	400GQSFPDD-DA025
Juniper	QDD-400G-DAC-1M-A		

## 6. Contact Information

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