

Product Highlights

Better Performance

High speeds and lower latency result in faster transmissions than other types of cables

Cost-effective Solution

SFP+ connectors on cable mean no need for expensive SFP+ transceivers and fiber cables

Energy Efficiency

Lower power consumption than other cables like 10GBASE-T or 10GBASE-CX4 means savings on energy usage and costs



SFP+ Direct Attach Cable Series

10G Passive SFP+ Twinaxial Direct Attach Cable

Features

Connectivity

- SFP+ (Enhanced Small Form-factor Pluggable)
- 10 Gbps Gigabit Ethernet
- Four different models
 - DEM-CB100S: 1 meter
 - DEM-CB300S: 3 meters
 - DEM-CB500S: 5 meters
 - DEM-CB700S: 7 meters
- Fully Compliant with the following standards:
 - SFP MSA (Multi-Source Agreement)
 - SFF-8431
 - EIA 364
 - UL 94

The 10G Passive SFP+ Twinaxial Direct Attach Cable is designed to support connections¹ for 10 Gbps Gigabit Ethernet or Gigabit Ethernet switches with 10 Gbps Gigabit Ethernet uplink, much more faster than SFP which only supports 2.5 Gbps Gigabit Ethernet. With four cable models including the DEM-CB100S, DEM-CB300S, DEM-CB500S, and DEM-CB700S, this series is suitable for very short distances up to 7 meters (23 feet), and is ideal for highly cost-effective networking connectivity between switches and servers within a rack or in adjacent racks.

Ideal for High-Bandwidth Operations

The D-Link 10G Passive SFP+ Twinaxial Direct Attach Cable supports speeds of up to 10 Gbps, while having lower latency and power consumption than other cables types such as 10GBASE-CX4 and CAT6/CAT6A 10GBASE-T. This makes it an optimal solution for handling high bandwidth transmission within short distances such as inside energy-efficient data centers.

Enhanced Small Form-factor Pluggable Format

The D-Link 10G Passive SFP+ Twinaxial Direct Attach Cable uses Enhanced Small Form-factor Pluggable format (SFP+) connectors. The SFP+ form factor is smaller than other form factors such as Xenpak, X2, and 10G XFP, resulting in lower costs, lower power disruption, and higher port density. Meanwhile SFP+ connectors use the same space-per-port as standard SFP connectors but support higher data transmission speeds.

Save on Costs

The D-Link 10G Passive SFP+ Twinaxial Direct Attach Cable features SFP+ connectors on both ends, thus eliminating the need for expensive SFP+ transceivers. This makes it more cost-effective than fiber cables which must use SFP+ transceivers.

SFP+ Direct Attach Cable Series

10G Passive SFP+Twinaxial Direct Attach Cable

Device Rate - 10 Gbps Gigabit Ethernet - SFP+ Cable Assembly - DEM-CB100S, DEM-CB300S: 30 AWG - DEM-CB500S, DEM-CB700S: 24 AWG - Min.: 32.5 dB - Physical - Minimum Cable Bend Radius - 23.5 mm (0.93 inches) - Cable Characteristic Impedance - 100 Ohms - John Cable Characteristic Impedance - 30 V AC - Current - 0.5 A - Gemperature - Operating: -40 to 85 °C (-40 to 185 °F) - Certifications - SFP-8431 - UL 94 - Drder Information - Description - Description - Description - Dem-CB300S - 3 meter 10G 30 AWG Passive SFP+ to SFP+ Direct Attach Cable - 5 meter 10G 30 AWG Passive SFP+ to SFP+ Direct Attach Cable - 5 meter 10G 30 AWG Passive SFP+ to SFP+ Direct Attach Cable - 5 meter 10G 30 AWG Passive SFP+ to SFP+ Direct Attach Cable - 5 meter 10G 24 AWG Passive SFP+ to SFP+ Direct Attach Cable - 5 meter 10G 24 AWG Passive SFP+ to SFP+ Direct Attach Cable - 5 meter 10G 24 AWG Passive SFP+ to SFP+ Direct Attach Cable - 5 meter 10G 24 AWG Passive SFP+ to SFP+ Direct Attach Cable - 5 meter 10G 24 AWG Passive SFP+ to SFP+ Direct Attach Cable	Technical Specifications			
SFP+ Cable Assembly DEM-CB100S, DEM-CB300S: 30 AWG DEM-CB500S, DEM-CB700S: 24 AWG AMA Loss to Crosstalk Ratio (VCR) Min:: 32.5 dB Physical Winimum Cable Bend Radius 23.5 mm (0.93 inches) Cable Characteristic Impedance 100 Ohms Foltage 30 V AC Current 0.5 A Temperature Operating: -40 to 85 °C (-40 to 185 °F) Certifications SFP-8431 Dem-CB100S 1 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB300S 5 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable 5 meter 10G 24AWG Passive SFP+ birrect Attach Cable 5 meter 10G 24AWG Passive SFP+ birrect Attach Cable	General			
Mine AWG DEM-CB100S, DEM-CB300S: 30 AWG DEM-CB500S, DEM-CB700S: 24 AWG Min: 32.5 dB Physical Minimum Cable Bend Radius 23.5 mm (0.93 inches) Cable Characteristic Impedance 100 Ohms Oltage 30 V AC Current 0.5 A Temperature Operating: -40 to 85 °C (-40 to 185 °F) Certifications SFF-8431 Dem-CB100S 1 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB500S 5 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable 5 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	Device Rate	• 10 Gbps Gigabit Ethernet	• 10 Gbps Gigabit Ethernet	
AMA Loss to Crosstalk Ratio (VCR) - Min.: 32.5 dB Physical Minimum Cable Bend Radius - 23.5 mm (0.93 inches) - 100 Ohms - 100 Ohms - 30 V AC - Current - 0.5 A - Operating: -40 to 85 °C (-40 to 185 °F) - Certifications - SFP MSA (Multi-Source Agreement) - SFF-8431 - UL 94 - UL 94 - Drder Information Model Number - Description - I meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable - DEM-CB300S - Set 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable - Set 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable - Set 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	ConnectorType	SFP+ Cable Assembly		
Winimum Cable Bend Radius - 23.5 mm (0.93 inches) - 100 Ohms - 100 Ohms - 30 V AC - Current - 0.5 A - Operating: -40 to 85 °C (-40 to 185 °F) - Certifications - SFP MSA (Multi-Source Agreement) - SFF-8431 - UL 94 - Order Information - Description - Description - I meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable - DEM-CB300S - 3 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable - 5 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable - 5 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	Wire AWG	• DEM-CB100S, DEM-CB300S: 30 AWG	• DEM-CB500S, DEM-CB700S: 24 AWG	
### Cable Bend Radius - 23.5 mm (0.93 inches) - 100 Ohms - 30 V AC - 0.5 A - Operating: -40 to 85 °C (-40 to 185 °F) - SFP MSA (Multi-Source Agreement) - SFF-8431 - UL 94 - Drder Information #### Description - Description - I meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable - DEM-CB300S - S meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable - S meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable - S meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable - S meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable - S meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	VMA Loss to Crosstalk Ratio (VCR)	• Min.: 32.5 dB		
Cable Characteristic Impedance - 100 Ohms /oltage - 30 V AC - 0.5 A - Operating: -40 to 85 °C (-40 to 185 °F) Certifications - SFP MSA (Multi-Source Agreement) - SFF-8431 - SFF-8431 - UL 94 Order Information Model Number Description 1 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB300S 3 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB500S 5 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	Physical			
/oltage	Minimum Cable Bend Radius	• 23.5 mm (0.93 inches)	• 23.5 mm (0.93 inches)	
Current Operating: -40 to 85 °C (-40 to 185 °F) Certifications SFP MSA (Multi-Source Agreement) SFF-8431 UL 94 Certifications Description Description 1 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB300S S meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable SEM-CB500S S meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	Cable Characteristic Impedance	• 100 Ohms		
Femperature Operating: -40 to 85 °C (-40 to 185 °F) SFP MSA (Multi-Source Agreement) SFF-8431 Order Information Model Number Description 1 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB300S 3 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable 5 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	Voltage	• 30 V AC	• 30 V AC	
Certifications SFP MSA (Multi-Source Agreement) SFF-8431 Drder Information Model Number Description 1 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB300S 3 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB500S 5 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	Current	• 0.5 A	• 0.5 A	
• SFF-8431 • UL 94 Order Information Model Number Description 1 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB300S 3 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB500S 5 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	Temperature	• Operating: -40 to 85 °C (-40 to 185 °F)		
DEM-CB100S 1 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB300S 3 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB500S 5 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	Certifications			
DEM-CB100S 1 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB300S 3 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB500S 5 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	Order Information			
DEM-CB300S 3 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable DEM-CB500S 5 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	Model Number	Description	Description	
DEM-CB500S 5 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	DEM-CB100S	1 meter 10G 30AWG Passive SFP+ to SFP+ Direct	1 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable	
	DEM-CB300S	3 meter 10G 30AWG Passive SFP+ to SFP+ Direct	3 meter 10G 30AWG Passive SFP+ to SFP+ Direct Attach Cable	
DEM-CB700S 7 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	DEM-CB500S	5 meter 10G 24AWG Passive SFP+ to SFP+ Direct	5 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	
	DEM-CB700S	7 meter 10G 24AWG Passive SFP+ to SFP+ Direct	7 meter 10G 24AWG Passive SFP+ to SFP+ Direct Attach Cable	

¹ It is recommended that you only use the 10G Passive SFP+ Twinaxial Direct Attach Cable with D-Link products.

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