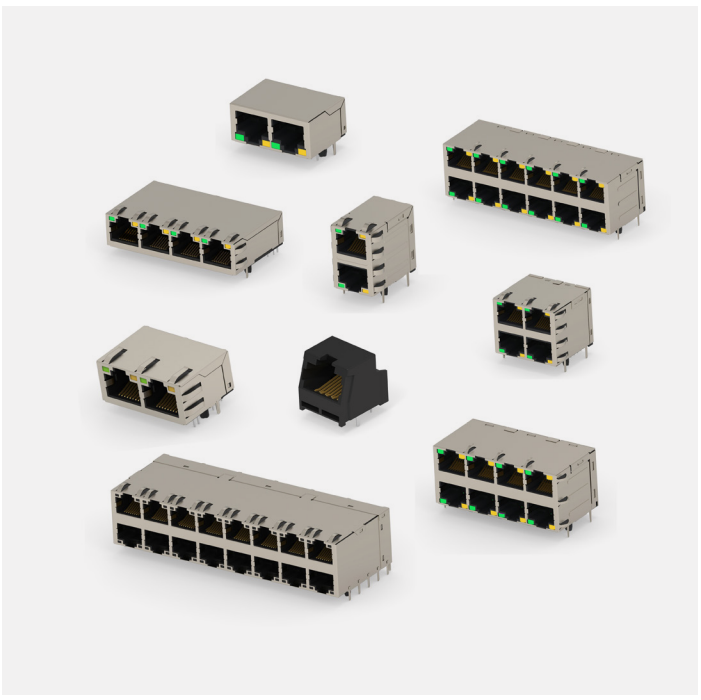
DIGITAL DATA NETWORKS

MODULAR JACKS – RJ45



MODULAR JACKS – RJ45

TE Connectivity (TE's) modular jacks – RJ45 deliver an end-to-end, highly integrated Ethernet connectivity solution—from the cable all the way to the physical layer. By embedding the magnetics within the jack itself, they help achieve enhanced EMI shielding, boosting both connection integrity and signal reliability. Available in speeds up to 10Gbps, the portfolio addresses surging bandwidth demands with exceptional high-speed performance, while Power-over-Ethernet (PoE) support helps to enable remote device powering directly over the data line.

PRODUCT BENEFITS & FEATURES

Future-proof Bandwidth

- Up to 10Gbps speed
- Supports 10M/100M/1G/2.5G/5G/10G Ethernet for maximum flexibility for diverse data transfer requirements

Power + Data Simplicity

- PoE+ (IEEE 802.3at) eliminates external power bricks and simplifies field installation

Reliable Signal Transmission

- Integrated magnetics allow for higher EMI shielding and help create more reliable connections and reduce signal degradation

Environmental Resilience

- Extended temperature range (-40°C to 85°C) allows for more robust operations and addresses the needs for demanding applications

Design Flexibility

- Right angle, vertical, and inverted mounting options
- Multiple LED and light pipe color options
- 1xN, 2xN configurations available

TARGET APPLICATIONS

Communications & Ethernet

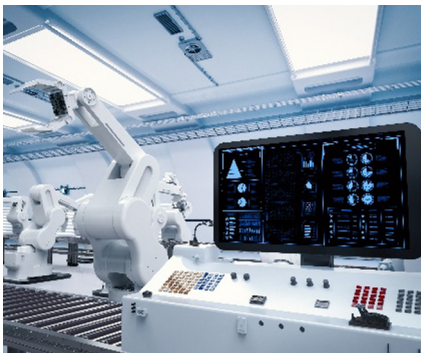
- Data centers
- Routers
- Switches
- Base stations

Industrial Applications

- Programmable logic controllers
- I/O Modules
- Servo drives
- Industrial PCs
- Industrial machinery
- Industrial production equipment
- Automated test equipment

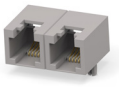
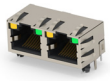
Medical

- Medical imaging
- Bedside monitors



STANDARD PRODUCT OFFERINGS

Non-Magnetics & Non-PoE

Part Number	Interface Type	Port Config	PCB Mount Orientation	Data Rate	LED Color (Top Left)	LED Color (Top Right)	Latch Orientation	Connector Profile	Gold Plating Thickness (µin)	Shielded	Magnetics	PoE (Watt)	Performance Category	Picture
2497281-2	RJ45	1 x 1	Inclined	1 Gb/s	Yellow	Green	Inverted - Latch Up	Angled	30	Yes	No	No	Cat 5e	
2496699-2	RJ45	1 x 1	Right Angle	1 Gb/s	Yellow	Green	Inverted - Latch Up	Standard	30	Yes	No	No	Cat 5e	
2497282-2	RJ11	1 x 1	Right Angle	10 Mb/s	None	None	Inverted - Latch Up	Standard	6	No	No	No	Cat 3	
2496701-2	RJ45	1 x 2	Right Angle	1 Gb/s	Yellow	Green	Inverted - Latch Up	Standard	30	Yes	No	No	Cat 5e	
2497308-6	RJ45	1 x 4	Right Angle	1 Gb/s	Green/ Orange	None	Inverted - Latch Up	Standard	Gold Flash	Yes	No	No	Cat 5e	
2496702-1	RJ45	1 x 4	Right Angle	1 Gb/s	Yellow	Green	Inverted - Latch Up	Standard	50	Yes	No	No	Cat 5e	
2496703-1	RJ45	1 x 8	Right Angle	1 Gb/s	Yellow	Green	Inverted - Latch Up	Standard	50	Yes	No	No	Cat 5e	
2496704-2	RJ45	2 x 1	Right Angle	1 Gb/s	Yellow	Green	Standard - Latch Up&Down	Standard	30	Yes	No	No	Cat 5e	
2496705-2	RJ45	2 x 2	Right Angle	1 Gb/s	Yellow	Green	Standard - Latch Up&Down	Standard	30	Yes	No	No	Cat 5e	
2496706-2	RJ45	2 x 4	Right Angle	1 Gb/s	Yellow	Green	Standard - Latch Up&Down	Standard	30	Yes	No	No	Cat 5e	
2497307-6	RJ45	2 x 6	Right Angle	1 Gb/s	Green/ Orange	Green/ Orange	Standard - Latch Up&Down	Standard	Gold Flash	Yes	No	No	Cat 5e	
2496715-2	RJ45	2 x 8	Right Angle	1 Gb/s	Yellow	Green	Standard - Latch Up&Down	Standard	30	Yes	No	No	Cat 5e	

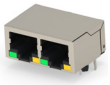
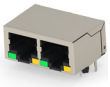
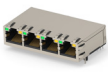
STANDARD PRODUCT OFFERINGS

Magnetics & Non-PoE – 1xN

Part Number	Interface Type	Port Config	PCB Mount Orientation	Data Rate	LED Color (Top Left)	LED Color (Top Right)	Latch Orientation	Connector Profile	Gold Plating Thickness (µin)	Shielded	Magnetics	PoE (Watt)	Performance Category	Picture
2489048-1	RJ45	1 x 1	Right Angle	10 Gb/s	Green	Yellow	Standard - Latch Down	Low	50	Yes	Yes	No	Cat 6A	
2489079-1	RJ45	1 x 1	Right Angle	10 Gb/s	Green	Green/ Yellow	Standard - Latch Down	Low	50	Yes	Yes	No	Cat 6A	
2489084-1	RJ45	1 x 1	Right Angle	10 Gb/s	Green/ Yellow	Green	Standard - Latch Down	Low	50	Yes	Yes	No	Cat 6A	
2489085-4	RJ45	1 x 1	Right Angle	2.5 Gb/s	Green	Yellow	Standard - Latch Down	Standard	6	Yes	Yes	No	Cat 5e	
2489102-2	RJ45	1 x 1	Right Angle	2.5 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Low	30	Yes	Yes	No	Cat 5e	
2489115-2	RJ45	1 x 1	Right Angle	1 Gb/s	Green	Yellow	Inverted - Latch Up	Standard	30	Yes	Yes	No	Cat 5e	
2489116-1	RJ45	1 x 1	Right Angle	1 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	50	Yes	Yes	No	Cat 5e	
2489117-2	RJ45	1 x 1	Right Angle	1 Gb/s	Green/ Yellow	Green	Inverted - Latch Up	Standard	30	Yes	Yes	No	Cat 5e	
2489120-1	RJ45	1 x 1	Right Angle	1 Gb/s	Green	Green	Inverted - Latch Up	Standard	50	Yes	Yes	No	Cat 5e	
2488942-2	RJ45	1 x 1	Right Angle	1 Gb/s	Green/ Yellow	Green/ Yellow	Inverted - Latch Up	Standard	30	Yes	Yes	No	Cat 5e	
2488953-1	RJ45	1 x 1	Vertical	100 Mb/s	Green	Yellow	Inverted - Latch Up	Standard	50	Yes	Yes	No	Cat 5	
2488960-3	RJ45	1 x 1	Right Angle	100 Mb/s	Green	Yellow	Inverted - Latch Up	Standard	15	Yes	Yes	No	Cat 5	
2488965-3	RJ45	1 x 1	Right Angle	100 Mb/s	None	None	Standard - Latch Down	Standard	15	Yes	Yes	No	Cat 5	

STANDARD PRODUCT OFFERINGS

Magnetics & Non-PoE – 1xN (Continued..)

Part Number	Interface Type	Port Config	PCB Mount Orientation	Data Rate	LED Color (Top Left)	LED Color (Top Right)	Latch Orientation	Connector Profile	Gold Plating Thickness (µin)	Shielded	Magnetics	PoE (Watt)	Performance Category	Picture
2488983-2	RJ45	1 x 1	Vertical	100 Mb/s	Green	Yellow	Inverted - Latch Up	Standard	30	Yes	Yes	No	Cat 5	
2496695-4	RJ45	1 x 1	Right Angle	5 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	6	Yes	Yes	No	Cat 6	
2496696-4	RJ45	1 x 2	Right Angle	5 Gb/s	Green/ Orange	Yellow	Standard - Latch Down	Standard	6	Yes	Yes	No	Cat 6	
2497292-1	RJ45	1 x 2	Right Angle	10 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	6	Yes	Yes	No	Cat 6A	
2496690-2	RJ45	1 x 2	Right Angle	1 Gb/s	Green/ Orange	Yellow	Standard - Latch Down	Standard	30	Yes	Yes	No	Cat 5e	
2496693-4	RJ45	1 x 2	Right Angle	2.5 Gb/s	Green/ Orange	Yellow	Standard - Latch Down	Standard	6	Yes	Yes	No	Cat 5e	
2496692-4	RJ45	1 x 4	Right Angle	1 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	6	Yes	Yes	No	Cat 5e	
2496694-4	RJ45	1 x 4	Right Angle	2.5 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	6	Yes	Yes	No	Cat 5e	
2496697-4	RJ45	1 x 4	Right Angle	5 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	6	Yes	Yes	No	Cat 6	
2496698-2	RJ45	1 x 4	Right Angle	10 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	30	Yes	Yes	No	Cat 6A	

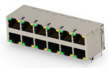
STANDARD PRODUCT OFFERINGS

Magnetics & Non-PoE – 2xN

Part Number	Interface Type	Port Config	PCB Mount Orientation	Data Rate	LED Color (Top Left)	LED Color (Top Right)	Latch Orientation	Connector Profile	Gold Plating Thickness (µin)	Shielded	Magnetics	PoE (Watt)	Performance Category	Picture
2496615-1	RJ45	2 x 1	Right Angle	1 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	No	Cat 5e	
2496682-2	RJ45	2 x 1	Right Angle	2.5 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	30	Yes	Yes	No	Cat 5e	
2496725-1	RJ45	2 x 1	Right Angle	5 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	No	Cat 6	
2496729-1	RJ45	2 x 1	Right Angle	10 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	No	Cat 6A	
2496619-1	RJ45	2 x 2	Right Angle	1 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	No	Cat 5e	
2496683-2	RJ45	2 x 2	Right Angle	2.5 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	30	Yes	Yes	No	Cat 5e	
2496726-1	RJ45	2 x 2	Right Angle	5 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	No	Cat 6	
2496730-1	RJ45	2 x 2	Right Angle	10 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	No	Cat 6A	
2496680-1	RJ45	2 x 4	Right Angle	1 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	No	Cat 5e	
2496684-2	RJ45	2 x 4	Right Angle	2.5 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	30	Yes	Yes	No	Cat 5e	
2496727-1	RJ45	2 x 4	Right Angle	5 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	No	Cat 6	
2496731-1	RJ45	2 x 4	Right Angle	10 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	No	Cat 6A	
2497309-1	RJ45	2 x 6	Right Angle	1 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	No	Cat 5e	

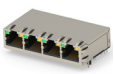
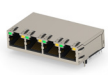
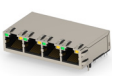
STANDARD PRODUCT OFFERINGS

Magnetics & Non-PoE – 2xN (Continued..)

Part Number	Interface Type	Port Config	PCB Mount Orientation	Data Rate	LED Color (Top Left)	LED Color (Top Right)	Latch Orientation	Connector Profile	Gold Plating Thickness (µin)	Shielded	Magnetics	PoE (Watt)	Performance Category	Picture
2497270-1	RJ45	2 x 6	Right Angle	2.5 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	No	Cat 5e	
2497275-4	RJ45	2 x 6	Right Angle	5 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	6	Yes	Yes	No	Cat 6	
2497276-2	RJ45	2 x 6	Right Angle	10 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	30	Yes	Yes	No	Cat 6A	
2496681-1	RJ45	2 x 8	Right Angle	1 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	No	Cat 5e	
2496685-2	RJ45	2 x 8	Right Angle	2.5 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	30	Yes	Yes	No	Cat 5e	
2496728-1	RJ45	2 x 8	Right Angle	5 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	No	Cat 6	
2496732-1	RJ45	2 x 8	Right Angle	10 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	No	Cat 6A	

STANDARD PRODUCT OFFERINGS

Standard Product Offering – Magnetics & PoE – 2xN

Part Number	Interface Type	Port Config	PCB Mount Orientation	Data Rate	LED Color (Top Left)	LED Color (Top Right)	Latch Orientation	Connector Profile	Gold Plating Thickness (µin)	Shielded	Magnetics	PoE (Watt)	Performance Category	Picture
2489103-1	RJ45	1 x 1	Right Angle	5 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	50	Yes	Yes	60	Cat 6	
2489108-1	RJ45	1 x 1	Right Angle	5 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	50	Yes	Yes	100	Cat 6	
2489107-1	RJ45	1 x 1	Right Angle	2.5 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	50	Yes	Yes	60	Cat 5e	
2489011-1	RJ45	1 x 1	Right Angle	100 Mb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	50	Yes	Yes	60	Cat 5	
2496556-1	RJ45	1 x 1	Right Angle	1 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	50	Yes	Yes	60	Cat 5e	
2496558-1	RJ45	1 x 1	Right Angle	10 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	50	Yes	Yes	90	Cat 6A	
2497290-1	RJ45	1 x 2	Right Angle	2.5 Gb/s	Green	Yellow	Inverted - Latch Up	Standard	6	Yes	Yes	60	Cat 5e	
2497291-1	RJ45	1 x 2	Right Angle	5 Gb/s	Green	Yellow	Inverted - Latch Up	Standard	6	Yes	Yes	60	Cat 6	
2497289-1	RJ45	1 x 2	Right Angle	1 Gb/s	Green	Yellow	Inverted - Latch Up	Standard	6	Yes	Yes	60	Cat 5e	
2497288-1	RJ45	1 x 2	Right Angle	10 Gb/s	Green	Yellow	Standard - Latch Down	Standard	6	Yes	Yes	60	Cat 6A	
2496721-1	RJ45	1 x 4	Right Angle	1 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	50	Yes	Yes	60	Cat 5e	
2496722-1	RJ45	1 x 4	Right Angle	2.5 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	50	Yes	Yes	60	Cat 5e	
2496723-1	RJ45	1 x 4	Right Angle	5 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	50	Yes	Yes	60	Cat 6	
2496724-1	RJ45	1 x 4	Right Angle	10 Gb/s	Green/ Orange	Yellow	Inverted - Latch Up	Standard	50	Yes	Yes	60	Cat 6A	

STANDARD PRODUCT OFFERINGS

Magnetics & PoE – 2xN

Part Number	Interface Type	Port Config	PCB Mount Orientation	Data Rate	LED Color (Top Left)	LED Color (Top Right)	Latch Orientation	Connector Profile	Gold Plating Thickness (µin)	Shielded	Magnetics	PoE (Watt)	Performance Category	Picture
2496686-1	RJ45	2 x 1	Right Angle	1 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 5e	
2497272-1	RJ45	2 x 1	Right Angle	2.5 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 5e	
2496733-1	RJ45	2 x 1	Right Angle	5 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 6	
2496737-1	RJ45	2 x 1	Right Angle	10 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 6A	
2496687-1	RJ45	2 x 2	Right Angle	1 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 5e	
2496691-1	RJ45	2 x 2	Right Angle	2.5 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 5e	
2496734-1	RJ45	2 x 2	Right Angle	5 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 6	
2496738-1	RJ45	2 x 2	Right Angle	10 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 6A	
2496688-1	RJ45	2 x 4	Right Angle	1 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 5e	
2497273-1	RJ45	2 x 4	Right Angle	2.5 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 5e	
2496735-1	RJ45	2 x 4	Right Angle	5 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 6	
2496739-1	RJ45	2 x 4	Right Angle	10 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 6A	
2497310-1	RJ45	2 x 6	Right Angle	1 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 5e	

STANDARD PRODUCT OFFERINGS

Magnetics & PoE – 2xN (Continued..)

Part Number	Interface Type	Port Config	PCB Mount Orientation	Data Rate	LED Color (Top Left)	LED Color (Top Right)	Latch Orientation	Connector Profile	Gold Plating Thickness (µin)	Shielded	Magnetics	PoE (Watt)	Performance Category	Picture
2497271-1	RJ45	2 x 6	Right Angle	2.5 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 5e	
2497277-1	RJ45	2 x 6	Right Angle	5 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 6	
1-2497277-1	RJ45	2 x 6	Right Angle	5 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	90	Cat 6	
2-2497277-2	RJ45	2 x 6	Right Angle	5 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	30	Yes	Yes	60	Cat 6	
3-2497277-3	RJ45	2 x 6	Right Angle	5 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	15	Yes	Yes	90	Cat 6	
2497278-1	RJ45	2 x 6	Right Angle	10 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 6A	
1-2497278-1	RJ45	2 x 6	Right Angle	10 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	90	Cat 6A	
2-2497278-2	RJ45	2 x 6	Right Angle	10 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	30	Yes	Yes	60	Cat 6A	
3-2497278-3	RJ45	2 x 6	Right Angle	10 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	15	Yes	Yes	90	Cat 6A	
2496689-1	RJ45	2 x 8	Right Angle	1 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 5e	
2497274-1	RJ45	2 x 8	Right Angle	2.5 Gb/s	Green	Yellow	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 5e	
2496736-1	RJ45	2 x 8	Right Angle	5 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 6	
2496740-1	RJ45	2 x 8	Right Angle	10 Gb/s	Light Pipe	Light Pipe	Standard - Latch Up&Down	Standard	50	Yes	Yes	60	Cat 6A	

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