SPE ETHERNET

CONNECTORS AND CABLES

www.finecables.com

FINE CABLES®

Finecables SPE

An introduction of Single Pair Ethernet (SPE) connector and cables

The trend of digitalization are raising new expectations for communication and cabling technology.

The SPE (Single Pair Ethernet) connector is a type of Ethernet connector that supports communication over a single pair of twisted wires. SPE technology is gaining traction in industrial applications due to its ability to provide reliable and secure communication with reduced cabling complexity and costs.

SPE CHARACTERISTICS

COST-EFFECTIVE CONNECTIVITY

SPE technology reduces cabling costs by using a single twisted pair for data transmission, leading to cost savings in material, installation, and maintenance.

SPACE-SAVING DESIGN

SPE connectors are compact and lightweight, ideal for applications with limited space or where multiple connections are required in a confined area.

ROBUST AND RELIABLE

SPE connectors are designed to withstand harsh industrial environments, offering resistance to vibration, temperature variations, and electromagnetic interference for reliable communication.

SCALABILITY AND FUTURE-PROOFING

SPE technology supports higher data rates and can easily adapt to technological advancements, providing scalability for future network expansions without extensive rewiring.

EFFICIENT POWER DELIVERY

SPE connectors support Power over Ethernet (PoE), enabling data and power transmission over a single cable, simplifying cabling infrastructure and reducing the need for additional power sources.

ENHANCED IIOT CONNECTIVITY

SPE connectors facilitate seamless communication between devices in industrial networks, supporting the connectivity requirements of the Industrial Internet of Things (IIoT) for data exchange and control in smart factory environments.

INTEROPERABILITY AND STANDARDIZATION

Based on industry standards and protocols, SPE technology ensures interoperability between devices from different manufacturers, simplifying network configuration and integration of SPE-enabled devices.

OVERALL

Overall, adopting SPE connectors and cables in industrial applications offers benefits such as cost efficiency, space-saving design, robustness, scalability, efficient power delivery, enhanced IIoT connectivity, and interoperability, supporting the transition to Industry 4.0 and the digital transformation of industrial processes.

TECHNICAL PARAMETER

MOLDED CABLE

+80°C -40°C		6P-S8 Male Straight Connector, Molded Cable, Snap-in, Shielded ● 2 crimp contacts ● Shielded 360° ● 0.34mm² (AWG 22)	SPEA08MSI02ST03CK34
+80°C -40°C		6P-P8 Male Straight Connector, Molded Cable, Push-Pull, Shielded ● 2 crimp contacts ● Shielded 360° ● 0.34mm² (AWG 22)	SPEA08MSPP02ST03CK34
+80°C -40°C		M8 Hybrid Female Straight Connector, Molded Cable, Shielded ● 4 crimp contacts ● Shielded 360° ● 2*22AWG (0.34mm²)+2*18AWG(0.81mm²)	SPEA08FSF04ST03CK34

ASSEMBLY TYPE

+80°C -40°C		M8 Male Straight Connector, Cable Assembly, Shielded ● 2 crimp contacts ● Shielded 360° ● 0.34mm² (AWG 22)	SPEB08MCSFF02ST
+80°C -40°C		M8 hybrid Male Straight Connector, Cable Assembly, Shielded ● 4 crimp contacts ● Shielded 360° ● 2*0.34mm2+ 2*0.81mm2(2*22AWG+2*18AWG)	SPEB08MCSFF04ST
+80°C -40°C		M12 Male Straight Connector, Cable Assembly, Shielded ● 2 crimp contacts ● Shielded 360° ● 0.34mm² (AWG 22)	SPEB12MCSFF02ST
+80°C -40°C		T1 Male Straight Connector, Cable Assembly, Shielded ● 2 crimp contacts ● Shielded 360° ● 0.34mm² (AWG 22)	SPEBT1MCSLF02ST

PANEL MOUNT TYPE

+80°C -40°C		M8 Female Straight Connector, Panel Mount, PCB Type, Rear Fastened, Shielded ● 2 crimp contacts ● Shielded 360°	SPEB08FBSHDR02ST
+80°C -40°C		6J-S8 Female Straight Connector, Panel Mount, Snap¬in, PCB Type, Rear Fastened, Shielded ● 2 crimp contacts ● Shielded 360°	SPEB08FBSIR02ST
+80°C -40°C		6J-P8 Female Straight Connector, Panel Mount, Push-Pull, PCB Type, Rear Fastened, Shielded ● 2 crimp contacts ● Shielded 360°	SPEB08FBSPPR02ST
+80°C -40°C		M12 Female Straight Connector, Panel Mount, PCB Type, Rear Fastened, Shielded ● 2 crimp contacts ● Shielded 360°	SPEB12FBSFR02ST
+80°C -40°C		M8 Hybrid Male Straight Connector, Panel Mount, PCB Type, Front fastened, Shielded ● 4 crimp contacts ● Shielded 360°	SPEB08MBSHDF04ST
+80°C -40°C		M8 Hybrid Female Straight Connector, Panel Mount, PCB Type, Front fastened, Shielded ● 4 crimp contacts ● Shielded 360°	SPEB08FBSHDF04ST
+80°C -40°C		T1 Female Straight Connector, Panel Mount, PCB Type, Shielded ● 2 crimp contacts ● Shielded 360°	SPEBT1FSLF02ST

GLOBAL SALES & MARKETING:

Headquartered in South of China, Finecables maintain contacts with customers throughout the world. Internationally, you can get in touch with Finecables by contacting our branches or regional distribution partners as below:

China

Headquarter (Factory)

Tel: +86-(0)769-8151 7898
Fax: +86-(0)769-8504 5467
Email: inof@finecables.com
Address: No. 54 Changdi Road,Nanmian Community Humen Town Dongguan City, Guangdong Province

China

East China Sales Office

Tel: +86-136 2528 9019
Email: smc.ec@finecables.com
Address: No. 203, Building 20, Central Garden, Xinbei District, Changzhou City, China. 213001

China

Central China Sales Office

Tel: +86-(0)731-8433 3981
Email: smc.cc@finecables.com
Address: Shangcheng B3, Suite#1911, Kaiyuan Road 79, economic development zone, Changsha City, China.410100

China

Southwest China Sales Office

Tel: +86-186 2344 1625
Email: fcsw@finecables.com
Address: Room6, Floor2, Building 21, Chuangke Port Science and Technology Park, Shabin Road, Shapingba District, Chongqing Cit

China

East China Sales Office

Tel:+86-182 6006 0323
Email: FCNJ@finecables.com
Address: Room 1712, Building 1, Crystal Blue Bay, No. 1568 Shuanglong Avenue, Jiangning District, Nanjing City, Jiangsu Province

United States

Finecables Inc. (USA)

Tel: +1 206 420 3829 +1 206 457 5383
Email: fc-usa@finecables.com
Address: 1833 N 105th ST. STE# 306, Seattle, WA, 98133, USA

Japan

Sales Office (Japan)

Tel: 080-13904423
Email: fc-jp@finecables.com
Address: 3-3-19, Harumicho, Fuchu-shi, Tokyo, Japan. Post Code:183-0057

United Kingdom

Engineering & Business Development

Tel: +44 (0)7863761119
Email: fc-uk@finecables.com
Address: Sindens Nursery, Cross in Hand TN21 0SH UK UK - United Kingdom

Germany

Engineering & Business Development

Tel: +49 (0)7531 8914 993
Email: fc-de@finecables.com
Address: Lohnerhofstrasse 2, 78467 Konstanz DE - Germany

Switzerland

Engineering & Business Development

Tel: +41 (0)71 669 17 85
Email: fc-ch@finecables.com
Address: Oberstrasse 4, 8274 Tägerwilen CH - Switzerland