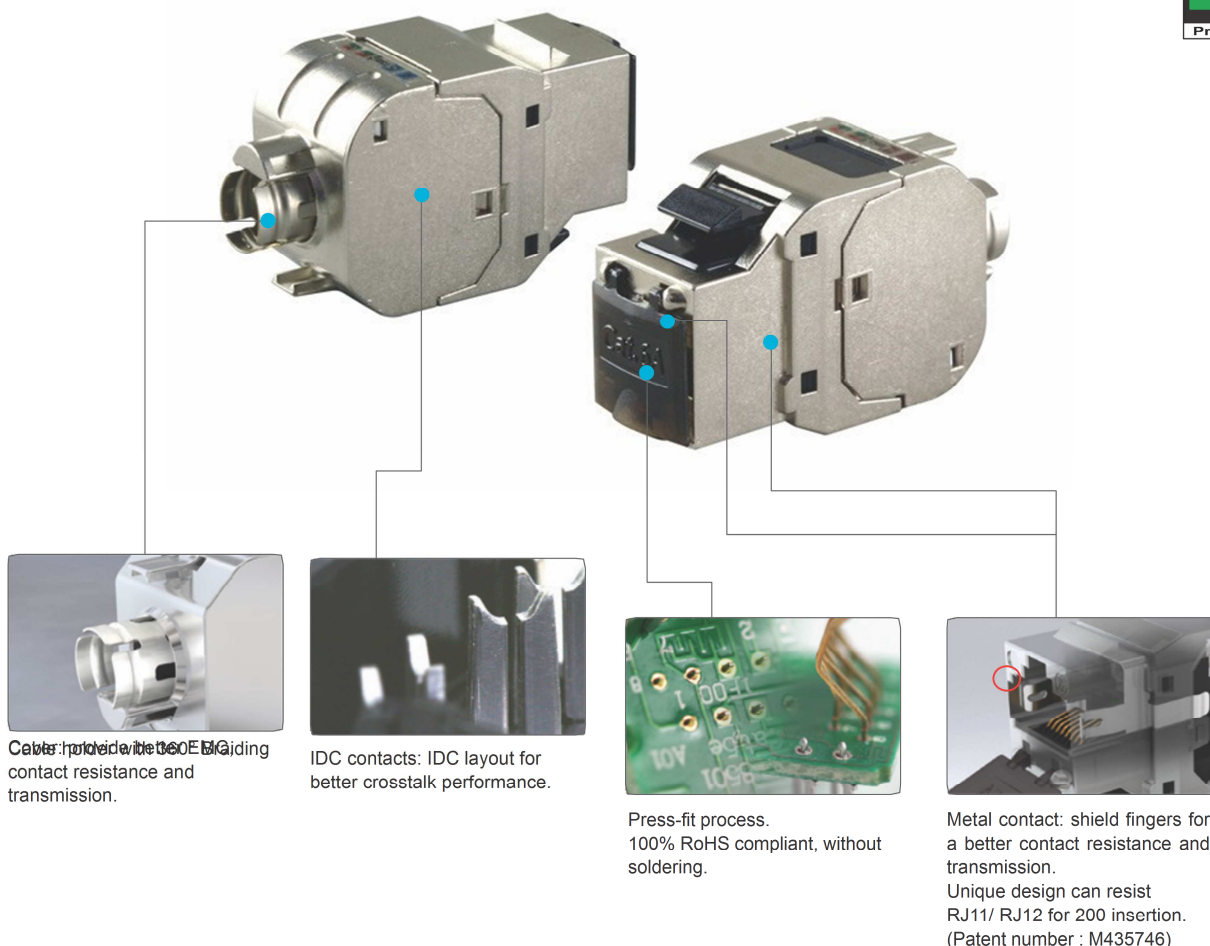


TB906ADX Class E_A / Cat.6A Die-Cast Keystone Jack (Auto press-fit)



The keystone jacks come with T568A or T568B wiring and fully comply with ANSI/TIA568-C-2 specifications for Insertion Loss (Attenuation), Near-End Crosstalk (NEXT), Return Loss, and Far-End Crosstalk (FEXT) for data transmissions of any pair combination with frequencies up to 500MHz.

Compliance Statement

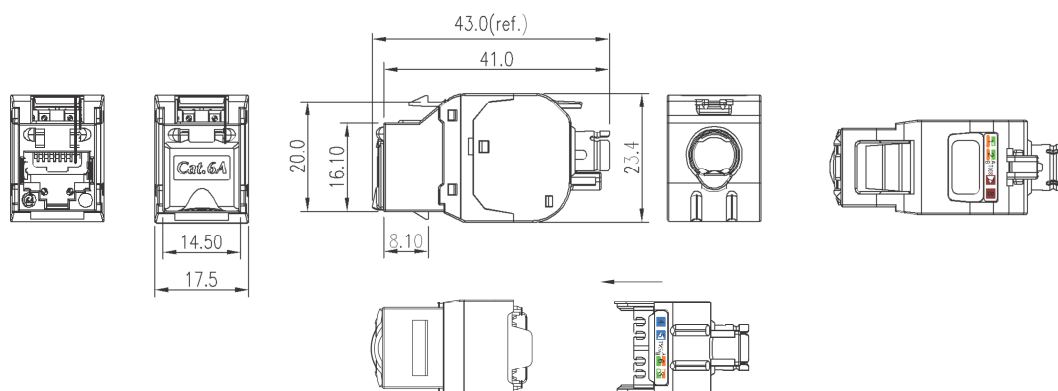
ISO/IEC, EN & TIA Screened
Class E_A / Category 6A
Two Connector Permanent Link

Telebox Industries Corp.
4F, No. 306, Tatung Road, Sec 1,
Hsichih-Taipei 221, Taiwan, R.O.C.

Compliance Statement No. 112731A

This type of Class E_A / Category 6A screened two connector permanent link has been tested by 3P Third Party Testing and complies with the 3P Certified Reference requirements of TIA/EIA-568-C.2, Class E_A requirements of Table 2.2 of ISO/IEC 11801 and ISO/IEC 61140-2:2011 and Category 6A requirements of ANSI/TIA-568-C.2. The Compliance Statement is valid for the permanent link type 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1I, 1J, 1K, 1L, 1M, 1N, 1O, 1P, 1Q, 1R, 1S, 1T, 1U, 1V, 1W, 1X, 1Y, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2I, 2J, 2K, 2L, 2M, 2N, 2O, 2P, 2Q, 2R, 2S, 2T, 2U, 2V, 2W, 2X, 2Y, 2Z, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3J, 3K, 3L, 3M, 3N, 3O, 3P, 3Q, 3R, 3S, 3T, 3U, 3V, 3W, 3X, 3Y, 3Z, 4A, 4B, 4C, 4D, 4E, 4F, 4G, 4H, 4I, 4J, 4K, 4L, 4M, 4N, 4O, 4P, 4Q, 4R, 4S, 4T, 4U, 4V, 4W, 4X, 4Y, 4Z, 5A, 5B, 5C, 5D, 5E, 5F, 5G, 5H, 5I, 5J, 5K, 5L, 5M, 5N, 5O, 5P, 5Q, 5R, 5S, 5T, 5U, 5V, 5W, 5X, 5Y, 5Z, 6A, 6B, 6C, 6D, 6E, 6F, 6G, 6H, 6I, 6J, 6K, 6L, 6M, 6N, 6O, 6P, 6Q, 6R, 6S, 6T, 6U, 6V, 6W, 6X, 6Y, 6Z, 7A, 7B, 7C, 7D, 7E, 7F, 7G, 7H, 7I, 7J, 7K, 7L, 7M, 7N, 7O, 7P, 7Q, 7R, 7S, 7T, 7U, 7V, 7W, 7X, 7Y, 7Z, 8A, 8B, 8C, 8D, 8E, 8F, 8G, 8H, 8I, 8J, 8K, 8L, 8M, 8N, 8O, 8P, 8Q, 8R, 8S, 8T, 8U, 8V, 8W, 8X, 8Y, 8Z, 9A, 9B, 9C, 9D, 9E, 9F, 9G, 9H, 9I, 9J, 9K, 9L, 9M, 9N, 9O, 9P, 9Q, 9R, 9S, 9T, 9U, 9V, 9W, 9X, 9Y, 9Z, 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25K, 25L, 25M, 25N, 25O, 25P, 25Q, 25R, 25S, 25T, 25U, 25V, 25W, 25X, 25Y, 25Z, 26A, 26B, 26C, 26D, 26E, 26F, 26G, 26H, 26I, 26J, 26K, 26L, 26M, 26N, 26O, 26P, 26Q, 26R, 26S, 26T, 26U, 26V, 26W, 26X, 26Y, 26Z, 27A, 27B, 27C, 27D, 27E, 27F, 27G, 27H, 27I, 27J, 27K, 27L, 27M, 27N, 27O, 27P, 27Q, 27R, 27S, 27T, 27U, 27V, 27W, 27X, 27Y, 27Z, 28A, 28B, 28C, 28D, 28E, 28F, 28G, 28H, 28I, 28J, 28K, 28L, 28M, 28N, 28O, 28P, 28Q, 28R, 28S, 28T, 28U, 28V, 28W, 28X, 28Y, 28Z, 29A, 29B, 29C, 29D, 29E, 29F, 29G, 29H, 29I, 29J, 29K, 29L, 29M, 29N, 29O, 29P, 29Q, 29R, 29S, 29T, 29U, 29V, 29W, 29X, 29Y, 29Z, 30A, 30B, 30C, 30D, 30E, 30F, 30G, 30H, 30I, 30J, 30K, 30L, 30M, 30N, 30O, 30P, 30Q, 30R, 30S, 30T, 30U, 30V, 30W, 30X, 30Y, 30Z, 31A, 31B, 31C, 31D, 31E, 31F, 31G, 31H, 31I, 31J, 31K, 31L, 31M, 31N, 31O, 31P, 31Q, 31R, 31S, 31T, 31U, 31V, 31W, 31X, 31Y, 31Z, 32A, 32B, 32C, 32D, 32E, 32F, 32G, 32H, 32I, 32J, 32K, 32L, 32M, 32N, 32O, 32P, 32Q, 32R, 32S, 32T, 32U, 32V, 32W, 32X, 32Y, 32Z, 33A, 33B, 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79G, 79H, 79I, 79J, 79K, 79L, 79M, 79N, 79O, 79P, 79Q, 79R, 79S, 79T, 79U, 79V, 79W, 79X, 79Y, 79Z, 80A, 80B, 80C, 80D, 80E, 80F, 80G, 80H, 80I, 80J, 80K, 80L, 80M, 80N, 80O, 80P, 80Q, 80R, 80S, 80T, 80U, 80V, 80W, 80X, 80Y, 80Z, 81A, 81B, 81C, 81D, 81E, 81F, 81G, 81H, 81I, 81J, 81K, 81L, 81M, 81N, 81O, 81P, 81Q, 81R, 81S, 81T, 81U, 81V, 81W, 81X, 81Y, 81Z, 82A, 82B, 82C, 82D, 82E, 82F, 82G, 82H, 82I, 82J, 82K, 82L, 82M, 82N, 82O, 82P, 82Q, 82R, 82S, 82T, 82U, 82V, 82W, 82X, 82Y, 82Z, 83A, 83B, 83C, 83D, 83E, 83F, 83G, 83H, 83I, 83J, 83K, 83L, 83M, 83N, 83O, 83P, 83Q, 83R, 83S, 83T, 83U, 83V, 83W, 83X, 83Y, 83Z, 84A, 84B, 84C, 84D, 84E, 84F, 84G, 84H, 84I, 84J, 84K, 84L, 84M, 84N, 84O, 84P, 84Q, 84R, 84S, 84T, 84U, 84V, 84W, 84X, 84Y, 84Z, 85A, 85B, 85C, 85D, 85E, 85F, 85G, 85H, 85I, 85J, 85K, 85L, 85M, 85N, 85O, 85P, 85Q, 85R, 85S, 85T, 85U, 85V, 85W, 85X, 85Y, 85Z, 86A, 86B, 86C, 86D, 86E, 86F, 86G, 86H, 86I, 86J, 86K, 86L, 86M, 86N, 86O, 86P, 86Q, 86R, 86S, 86T, 86U, 86V, 86W, 86X, 86Y, 86Z, 87A, 87B, 87C, 87D, 87E, 87F, 87G, 87H, 87I, 87J, 87K, 87L, 87M, 87N, 87O, 87P, 87Q, 87R, 87S, 87T, 87U, 87V, 87W, 87X, 87Y, 87Z, 88A, 88B, 88C, 88D, 88E, 88F, 88G, 88H, 88I, 88J, 88K, 88L, 88M, 88N, 88O, 88P, 88Q, 88R, 88S, 88T, 88U, 88V, 88W, 88X, 88Y, 88Z, 89A, 89B, 89C, 89D, 89E, 89F, 89G, 89H, 89I, 89J, 89K, 89L, 89M, 89N, 89O, 89P, 89Q, 89R, 89S, 89T, 89U, 89V, 89W, 89X, 89Y, 89Z, 90A, 90B, 90C, 90D, 90E, 90F, 90G, 90H, 90I, 90J, 90K, 90L, 90M, 90N, 90O, 90P, 90Q, 90R, 90S, 90T, 90U, 90V, 90W, 90X, 90Y, 90Z, 91A, 91B, 91C, 91D, 91E, 91F, 91G, 91H,

Specification



Specification:

Qualified unscreened Class E_A/Category 6A

Permanent Link/Channel of ANSI/TIA-568-C.2

IEC 60603-7-51

ISO/IEC 11801 AMD2

CENELEC EN 50173-1

Electrical:

Current Rating: 1.5 Amps

Insulation Resistance: 500 MΩ minimum

Contact Resistance: 10 mΩ maximum

DC Resistance: 0.1 Ω maximum

Mechanical:

Plug Insertion Life: 750 Cycles minimum

Plug & Jack Contact Force: 100 Grams minimum

using FCC-approved plug

Plug Retention Force: 30 lbs minimum

Temperature: -40° to 150°F (-40° to 68°C)

Physicals:

Housing & Cap: Zinc alloy die-casting

Cover & holder: High impact flame retardant plastic

Springshielded: 0.25t Phosphor bronze nickel plating

PCB: FR4, 1.6mm Thickness

Jack Wire: Ø0.40 mm Phosphor bronze gold over nickel plating

Connector: Insulation displacement connector (IDC) Accept #23~24 AWG solid wire

TB90	XX	X	X	-	XX
	58 : Cat.5e 68 : Cat.6 6A : Cat.6A	D : Die cast	D : door T : without door		BK : Black



Class E_A / Cat.6A

Standard	Configuration	Cat.6A or Class E _A (500MHz)
ISO/IEC 11801 AMD 2	Channel	Class E _A
	Permanent Link	Class E _A
CENELEC EN50173-1	Channel	Class E _A
	Permanent Link	Class E _A
EIA/TIA 568-C.2	Channel	Cat.6A
	Permanent Link	Cat.6A

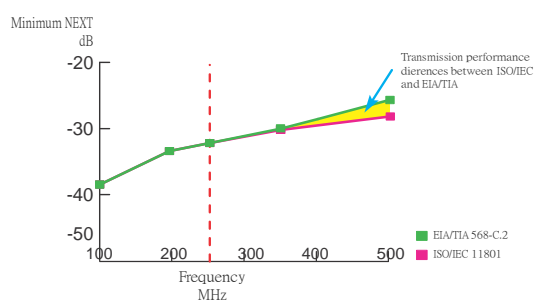
<<Comparison Chart I>>

For the regional US American cabling standard EIA/TIA 568-C.2, see <<Comparison Chart I>>, it describes channels and permanent links as “Cat. 6A.”

For the international cabling standard ISO/IEC 11801 and the European cabling standard EN 50173-1, both standards configurations like channels and permanent links are called “Class E_A”.

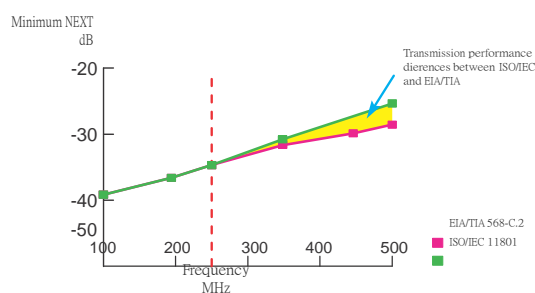
When you compare EIA/TIA with ISO/IEC or EN, they are not only naming differently, but also transmission performance requirements show significant variations, see below comparison charts.

ISO/IEC 11801 v.s. EIA/TIA568-C.2 Channel NEXT Limits



Frequency MHz	ISO/IEC 11801	EIA/TIA 568-C.2
1.0	65.0	65.0
16.0	53.2	53.2
100.0	39.9	39.9
200.0	34.8	34.8
250.0	33.1	33.1
350.0	30.6	30.3
500.0	27.9	26.1

ISO/IEC 11801 v.s. EIA/TIA568-C.2 Permanent Link NEXT Limits



Frequency MHz	ISO/IEC 11801	EIA/TIA 568-C.2
1.0	65.0	65.0
16.0	54.6	54.6
100.0	41.8	41.8
200.0	36.9	36.9
250.0	35.3	35.3
350.0	32.6	31.8
450.0	30.2	
500.0	27.8	26.7

■ Automatically Pressing contacts and IDC into a plated-through hole in the PCB.



Advantages of Press-fit Connectors:

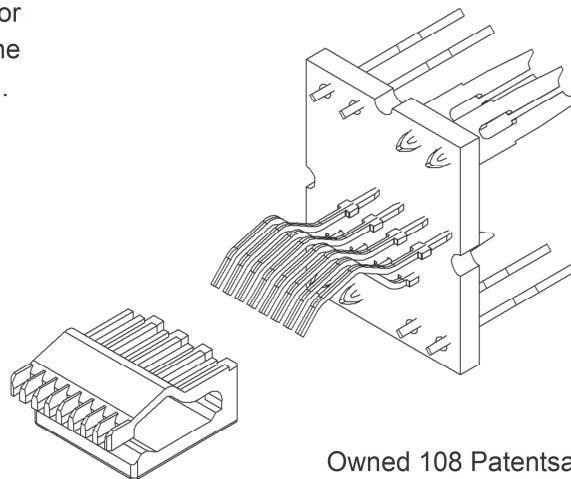
- Stable and reliable form of the contact
- Time-saving production
- Cost effective, no manual soldering
- Environmentally friendly
- Reduced inspection process



■ Patents and trade marks

Automatically Pressing contacts and IDC into a plated-through hole in the PCB.

The contact pins are bended by auto machine for better strength, together with contact support, the contact pins can resist RJ11/12 for 200 insertion.
(Patent number : M435746)



Owned 108 Patents and 9 trade marks registered

