KYOCERA AVX



Wire-to-Wire Connectors



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Wire-to-Wire Connectors

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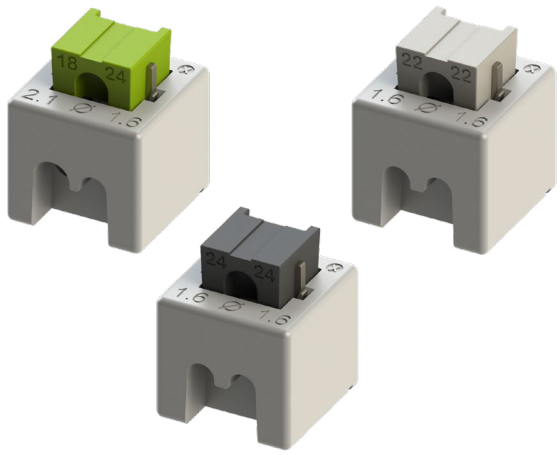
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The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

IDC SPLICE CONNECTOR: 9179-000

General Information



KYOCERA AVX continues to develop unique connectors that fill gaps in the current market. The newest addition to our Wire-to-Wire solutions is the 9179 Splice Connector. The 9179 Splice Connector uses IDC (Insulation Displacement Connection) technology to splice two wires together.

The Wire-to-Wire 9179 Splice IDC Connector is packed with key features that provide significant functionality in a broad range of applications. Compatible with solid or stranded wires, the connector supports mixed combinations of wire gauges ranging from 18 to 24 AWG. The design of the 9179 Splice IDC Connector requires no special tooling, allowing for easy wire termination in the field and enabling wire insertion from one or both sides. Rated UL94V-0 at up to 10A per contact, the 9179 series' small form-factor housing is made of glass-filled thermoplastic and is compatible with potting.

APPLICATIONS

- Oil & Gas Down Hole Drilling
- Industrial
- Lighting
- Consumer & Automotive Wire-To-Wire terminations
- Replacement of traditional splicing solutions
- Product Specification: Refer to 201-01-231
- Application Notes: Refer to Refer to 201-01-234

FEATURES AND BENEFITS

- IDC contact provides a gas-tight connection for long term reliability
- Tested to levels of shock, vibration, and temperature cycling for enhanced reliability
- Supports a combination of wire gauges ranging from 18 to 24 AWG including color coding
- Common tool (parallel jaw pliers) required for easy installation in the field
- Compatible with potting
- Allows for wire insertion from one side or both sides

ELECTRICAL

- Current Rating: Up to 13 Amps
- Voltage Rating: 300VAC (RMS) or DC Equivalent

ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C
- Storage Temperature: -40°C to +80°C

MECHANICAL

- Insulator Material: Glass filled thermoplastic UL94-V0
- Contact Material: Phosphor Bronze
- Plating: Tin over Nickel

HOW TO ORDER

00	9179	002	0XX	9	06
Prefix	**Series**		**Wire Size***	**Housing Color**	**Plating Option**
00 = Standard Products			See table below	Standard 9 = UL White/ Natural Special	06 = Tin over Nickel

SALES DRAWINGS
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PART NUMBER	WIRE 1	WIRE 2	DIM. A	DIM. B	CAP COLOR
00-9179-002-011-906	18 AWG	18 AWG	2.10	2.10	RED
00-9179-002-012-906	18 AWG	20 AWG	2.10	2.10	ORANGE
00-9179-002-013-906	18 AWG	22 AWG	2.10	1.60	YELLOW
00-9179-002-014-906	18 AWG	24 AWG	2.10	1.60	GREEN
00-9179-002-022-906	20 AWG	20 AWG	2.10	2.10	BLUE
00-9179-002-023-906	20 AWG	22 AWG	2.10	1.60	VIOLET
00-9179-002-024-906	20 AWG	24 AWG	2.10	1.60	BROWN
00-9179-002-033-906	22 AWG	22 AWG	1.60	1.60	WHITE
00-9179-002-034-906	22 AWG	24 AWG	1.60	1.60	GRAY
00-9179-002-044-906	24 AWG	24 AWG	1.60	1.60	BLACK

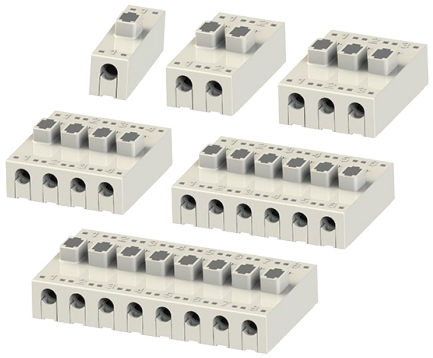
*Solid or Standed wire accepted:
more than 19 strands per wire not recommended

Safety Standards: UL 1977-File #E90723, CSA C22.2 NO. 182.3

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POKE-HOME THRU-WIRE CONNECTORS 18-26 AWG: 9286-000

General Information



Wire-to-Wire (WTW) connectors have been used in the industrial market for years with traditional 2-Piece (plug and socket) connector systems which require crimp and poke wire terminations to connect electrical or electronic components. In the general wiring market (2-3 wires) there are a number of connector styles available, however, they are limited in sizes, expanded wire gauges and the ability to reuse them when repair or replacement is needed. Based on the existing success of "Poke-Home" wire-to-board connectors, KYOCERA AVX has developed a new family of wire-to-wire connectors to meet the cost, flexibility and ease-of-use targets in industrial wiring applications.

The 9286-000 series of Thru-Wire connectors provides a high spring force Beryllium Copper contact system that uses simple push button activation to insert and remove individual stripped wires in the connection process. There is a forward and aft shrouded (to prevent accidental activation) push button for each wire connection that can be operated individually or simultaneously with a simple plastic tool or ball point pen tip. Up to eight wires can be electrically connected in a single connector body which will support any combination of wire gauges from 18 AWG up to 26 AWG. Wires can be removed or replaced up to 5 times so there is no need to replace the connector in a new installation.

APPLICATIONS

- Industrial/Machine Control; motors, solenoids, PLC's, pumps, valves, sensors, fan
- Commercial/Building; fixtures, fire, security, surveillance, blinds, sensors, controls
- Commercial/Industrial LED; retail, office, manufacturing, signage, displays
- Application Notes: Refer to 201-01-135
- Product Specification: Refer to 201-01-132

FEATURES AND BENEFITS

- High spring force top contact provides a lance type retention to capture and retain the wire
- Shrouded dual push button activation for easy wire insertion/removal
- Accepts 18-26 AWG Solid and Stranded wires; any combination
- Expanded size offering to maximize application potential; 1, 2, 3, 4, 6 & 8 positions
- Optional mounting tape to secure in panel mounting applications
- Molded in position numbers and schematic for easy identification

ELECTRICAL

- Current Rating: 8 Amps / Contact
- Voltage Rating: 300 VAC (RMS) or DC equivalent

ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C
- Storage Temperature: -40°C to +80°C

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94V0
- Contact Material: Beryllium Copper / Phosphor Bronze
- Plating: Tin over Nickel
- Durability: 5 Cycles

HOW TO ORDER

00	9286	00X	021	9	06
Prefix	Series	Number of Ways	Wire Size	Color Options	Plating Option
		001 = 1 002 = 2 003 = 3 004 = 4 006 = 6 008 = 8		9 = UL White	06 = Pure Tin all over

Code	Wire Gauge	Max Conductor	Max Insulation
021	18 to 26 AWG	1.05mm Diameter	2.10mm Diameter



SALES DRAWINGS
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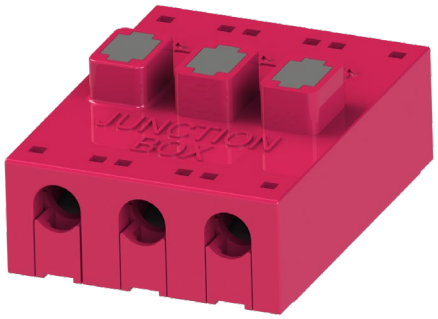
Safety Standards: UL 1977-File #E90723, CSA C22.2 NO. 182.3

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POKE-HOME – JUNCTION BOX 18-26 AWG: 9286-100

General Information



Wire-to-Wire connectors have been used in the industrial market for years with traditional 2-Piece (plug and socket) connector systems which require crimp and poke wire terminations to connect electrical or electronic components. In the general wiring market (2-3 wires) there are a number of connector styles available, however, they are limited in sizes, expanded wire gauges and the ability to reuse them when repair or replacement is needed. Based on the existing success of "Poke-Home" wire-to-board connectors, KYOCERA AVX has developed a new family of wire-to-wire connectors to meet the cost, flexibility and ease-of-use targets in industrial wiring applications.

The 9286-100 series of Junction Box connectors provide a high spring force Beryllium Copper contact system that uses simple push button activation to insert and remove individual stripped wires in the connection process. There is a forward and aft shrouded (to prevent accidental activation) push button for each wire connection that can be operated individually or simultaneously with a simple plastic tool or ball point pen tip. This connector family has been designed to bring a single wire in and then have multiple output (bus structure) wires of the same power or signal. Four, Six or Eight wires can be electrically connected together in a single connector body which will support any combination of wire gauges from 18 AWG up to 26 AWG. Wires can be removed or replaced up to 5 times so there is no need to replace the connector in a new installation.

APPLICATIONS

- Industrial/Machine Control; motors, solenoids, PLC's, pumps, valves, sensors, fans…
- Commercial/Building; fixtures, fire, security, surveillance, blinds, sensors, controls…
- Commercial/Industrial LED; retail, office, manufacturing, signage, displays…
- Application Notes: Refer to 201-01-135
- Product Specification: Refer to 201-01-132

FEATURES AND BENEFITS

- High spring force top contact provides a lance type retention to capture and retain the wire
- Shrouded dual push button activation for easy wire insertion/removal
- Accepts 18-26 AWG Solid and Stranded wires; any combination
- Expanded size offering to maximize application potential; 4, 6 or 8 positions
- Optional mounting tape to secure in panel mounting applications
- Molded in position numbers and schematic for easy identification

ELECTRICAL

- Current Rating: 8 Amps total
- Voltage Rating: 300 VAC (RMS) or DC equivalent

ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C
- Storage Temperature: -40°C to +80°C

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94V0
- Contact Material: Beryllium Copper / Phosphor Bronze
- Plating: Tin over Nickel
- Durability: 5 Cycles

HOW TO ORDER

00	9286	00X	121	9	06
Prefix	Series	Number of Ways 004 = 4 006 = 6 008 = 8	Wire Size	Color Options 9 = UL Red	Plating Option 06 = Tin all over

Code	Wire Gauge	Max Conductor	Max Insulation
121	18 to 26 AWG	1.05mm Diameter	2.10mm Diameter



SALES DRAWINGS
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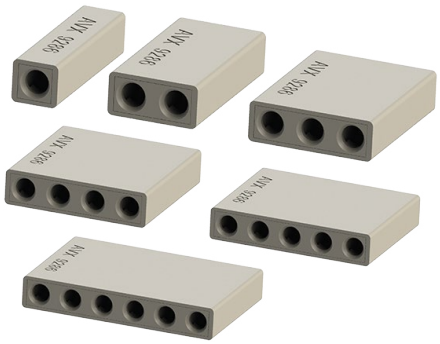
Safety Standards: UL 1977-File #E90723, CSA C22.2 NO. 182.3

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REDUCED THRU WIRE CONNECTOR 18-24 AWG: 9286-200

General Information



Wire-to-Wire (WTW) connectors have been used in the industrial market for years with traditional 2-piece (plug & socket) connector systems. These require crimp and poke wire terminations to connect discrete wires. While these provide repeated mating and locking, they are often size and cost prohibitive in applications where the wires may only need to be replaced once or twice during their lifetime.

The reduced 9286-200 series of thru-wire connectors extends WTW's already proven 9286 poke-home discrete connector family, but in a smaller package size. The development of an active stainless steel spring contact eliminates the need for push-button activation for wire insertion and removal, resulting in significant cost savings. The mechanical properties of this contact provide maximum wire retention over a wide range of solid and stranded wire gauges, making this connector very versatile in field installations.

APPLICATIONS

- Industrial Machine Controls; motors, drives, solenoids, sensors, fans, pumps, etc...
- Commercial Buildings; controls, security, fire and sensors
- Smart Grid; meters, breakers and panels
- SSL/LED; fixtures, signage and streetlights
- Application Notes: Refer to 201-01-172
- Product Specification: Refer to 201-01-171

FEATURES AND BENEFITS

- Simple strip and poke-home wire insertion with twist and pull wire extraction
- High spring force stainless steel contact maximizes cost, strength and flexibility
- Accepts 18-24 AWG solid and stranded wires
- Expanded size offering to cover multiple power and signal applications: 1p-6p
- UL approved

ELECTRICAL

- Current Rating: See matrix below
- Voltage Rating: 300 VAC (RMS) or DC equivalent

ENVIRONMENTAL

- Operating Temperature: -40°C to +130°C
- Storage Temperature: -40°C to +80°C

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94V0
- Fixed Contact Material: Copper Alloy
- Flexing Contact: Stainless Steel
- Fixed Contact Plating; Tin over Nickel
- Durability: 5 Cycles

HOW TO ORDER

00	9286	00X	203	9	X	6
Prefix	Series	Number of Ways	Wire Size	Insulator Color	Internal Wire Stop	Plating Option

Number of Ways

Code	No of POS.	DIM. A
001	1	4.0/4.5
002	2	8.0/8.5
003	3	12.0/12.5
004	4	16.0/16.5
005	5	20.0/20.5
006	6	24.0/24.5

Wire Size

Code	Wire Gauge	Max Insulation
203	18 - 24 AWG	2.10mm DIA.

Insulator Color
9 = White (Standard)

Internal Wire Stop
0 = No Wire Stop
1 = With Wire Stop

Plating Option
6 = Tin all over



SALES DRAWINGS
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CURRENT RATING

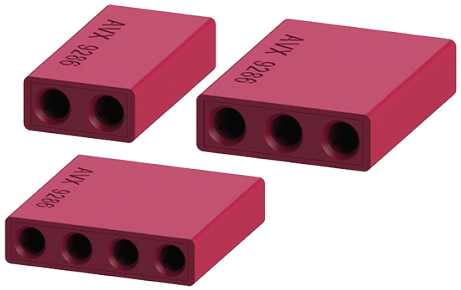
Wire gauge	Maximum approved current (amps)	
	UL (USA)	UL (Canada)
18 AWG	8	8
20 AWG	6	4
22 AWG	5	4
24 AWG	3	2

Safety Standards: UL 1977-File #E90723, CSA C22.2 NO. 182.3

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REDUCED JUNCTION BOX CONNECTORS 18-24 AWG: 9286-250

General Information



Wire-to-Wire (WTW) connectors have been used in the industrial market for years alongside traditional two-piece (plug and socket) connector systems. These systems require crimp-and-poke wire terminations to connect discrete wires. While they provide repeated pluggability and latching, they are often too large and expensive for applications where the wires may only need to be replaced once or twice.

The 9286-250 series of reduced-size junction connectors builds on the proven 9286 poke-home discrete WTW connector family, offering a smaller package size. Junction box connectors electrically connect each inserted wire, similar to a branch or splitter application, but with multiple outputs. The development of an active stainless steel spring contact eliminates the need for push-button activation to insert and remove wires, offering significant cost savings. The mechanical properties of this contact provide maximum wire retention across a broad range of solid and stranded wire gauges, making this connector highly versatile for field installations.

APPLICATIONS

- Industrial Machine Controls; motors, drives, solenoids, sensors, fans, pumps, etc...
- Commercial Buildings; controls, security, fire and sensors
- Smart Grid; meters, breakers and panels
- SSL/LED; fixtures, signage and streetlights
- Application Notes: Refer to 201-01-172
- Product Specification: Refer to 201-01-171

FEATURES AND BENEFITS

- Simple strip and poke-home wire insertion with twist and pull wire extraction
- High spring force stainless steel contact maximizes cost, strength and flexibility
- Accepts 18-24 AWG solid and stranded wires
- Expanded size offering to allow up to 8 wires to be connected together
- UL approved

ELECTRICAL

- Current Rating: See matrix below
- Voltage Rating: 300 VAC (RMS) or DC equivalent

ENVIRONMENTAL

- Operating Temperature: -40°C to +130°C
- Storage Temperature: -40°C to +80°C

MECHANICAL

- Insulator Material; Glass-Filled Nylon 46; UL94V0
- Fixed Contact Material; Copper Alloy
- Flexing Contact; Stainless Steel
- Fixed Contact Plating; Tin over Nickel
- Durability; 5 Cycles

HOW TO ORDER

00 9286 00X 253 X X 06

Prefix — **00**

Series — **9286**

Number of Ways

Code	No of Ways	DIM. A
004	4	8.0/8.5
006	6	12.0/12.5
008	8	16.0/16.5

Wire Size

Code	Accepted Wire Gauge	Max Insulation
253	18 – 24 AWG Solid or Stranded	2.10mm Diameter

Insulator Color
Standard
9 = UL Red
Special Order Only
0 = UL Black
2 = UL Brown
3 = UL Blue
4 = UL Yellow
6 = UL Green
7 = UL Orange

Internal Wire Stop

Code	Contact Style
0	No wire stop
1	With wire stop

Plating Option
06 = Tin All Over

SALES DRAWINGS
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CURRENT RATING

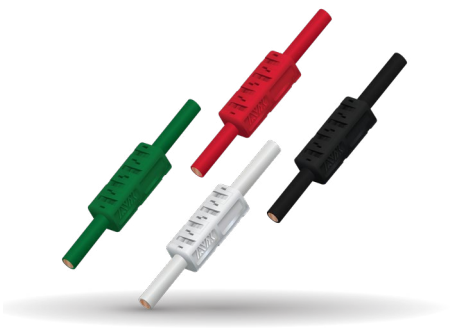
Wire gauge	Maximum approved current (Amps)	
	UL (USA)	UL (Canada)
18 AWG	8	7
20 AWG	8	7
22 AWG	6	6
24 AWG	4	4

Safety Standards: UL 1977-File #E90723, CSA C22.2 NO. 182.3

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THRU-WIRE CONNECTOR 12-18 AWG: 9286-300

General Information



Poke-Home wire-to-wire connectors have proven to be very simple and reliable over the past few years. To date, they have focused on the light industrial wire gauge ranges of 18 AWG to 24 AWG.

The latest product has just been developed to address the heavier 12 AWG to 18 AWG range. This new 300 Series connector uses a single phosphor bronze contact technology with a center wire stop.

Accepting both solid and stranded wires, pre-stripped wires can be easily inserted and then twisted and pulled for removal.

APPLICATIONS

- Industrial Machine Controls: motors, drives, solenoids, pumps, coils or transformers
- Commercial Building: controls, security and fire
- Smart Grid: meters, breakers and panels
- SSL: fixtures and wiring
- Application Notes: Refer to 201-01-218
- Product Specification: Refer to 201-01-217

FEATURES AND BENEFITS

- Simple strip and poke-home wire insertion with twist and pull wire extraction
- One-Piece contact with high force contact beams provide mechanical stability and wire retention
- Integral wires stop prevents over insertion
- -316 product will accept both 16 AWG and 18 AWG solid and stranded wires

ELECTRICAL

- Current Rating:

Connector	Wire Gauge	Current
16 AWG	18 AWG	10A
16 AWG	16 AWG	11A
14 AWG	14 AWG	13A
12 AWG	12 AWG	15A

- Voltage Rating: 600 VAC (RMS) or DC equivalent

ENVIRONMENTAL

- Operating Temperature: -40°C to +130°C
- Storage Temperature: -40°C to +80°C

MECHANICAL

- Contact Material: Phosphor Bronze
- Plating: Pure Tin Over Nickel
- Durability: 5 Cycles

HOW TO ORDER

00	9286	001	3XX	X	06
Prefix	**Series**	**Number of Ways**	**Wire Size***	**Housing Color**	**Plating Option**
00 = Standard Products		001 = 1	312 = 12 AWG/3.3 – 3.9mm² 314 = 14 AWG/2.0 – 2.5mm² 316 = 16 AWG/1.3 – 1.6mm² 18 AWG/0.8 – 1.0mm²	Standard 9 = UL White/Natural Special 8 = UL Black 0 = UL Gray 1 = UL Violet 2 = UL Brown 3 = UL Blue 4 = UL Yellow 5 = UL Red 6 = UL Green 7 = UL Orange	06 = Lead-Free Tin All Over

*Solid or Stranded wire accepted:
more than 19 strands per wire not recommended

SALES DRAWINGS
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Safety Standards: UL 1977-File #E90723, CSA C22.2 NO. 182.3

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WATERPROOF WIRE-TO-WIRE CONNECTOR: 9289-000

General Information



KYOCERA AVX continues to develop unique connectors that fill market gaps. The newest addition to its broadening line of one-piece wire-to-wire solutions is the 9289-000 series, a 3-way waterproof wire-to-wire connector.

The 9289-000 series is KYOCERA AVX's first waterproof product offering. It features our proven poke-home contact technology, which provides maximum wire retention for 16 AWG solid and stranded wire gauges. The 9289-000 series allows for simple strip-and-poke wire insertion and twist-and-pull wire extraction, which is especially beneficial for field installations.

APPLICATIONS

- Transportation Lighting
- Outdoor Lighting
- Factory automation
- Home appliance
- Drone
- Product Specification: Refer to 201-01-235
- Application Notes: Refer to 201-01-236

FEATURES AND BENEFITS

- IP67 Rating Waterproof
- Significant cost savings in an array of industrial power and signal applications.
- Simple strip and poke in insertion and extraction by twisting wire.
- Beneficial in field installation.
- Space saving comparing to two-piece solution
- UL approved

ELECTRICAL

- Current Rating: Up to 10 Amps
- Voltage Rating: 1000 VAC (RMS) or DC equivalent

ENVIRONMENTAL

- IP Rating: IP67
- Operating Temperature: -40°C to +80°C
- Storage Temperature: -40°C to +80°C

MECHANICAL

- Insulator Material: PC, Transparent
- Contact Material: Copper alloy
- Plating: Tin over Nickel

HOW TO ORDER

00	9289	003	00X	0	06
Prefix	**Series**		**Wire Size**	**Housing Color**	**Plating Option**
00 = Standard Products			001 = 16 AWG OD:2.0-2.2MM 002 = 16 AWG OD:3.0-3.2MM	0 = Standard	06 = Tin over Nickel



SALES DRAWINGS
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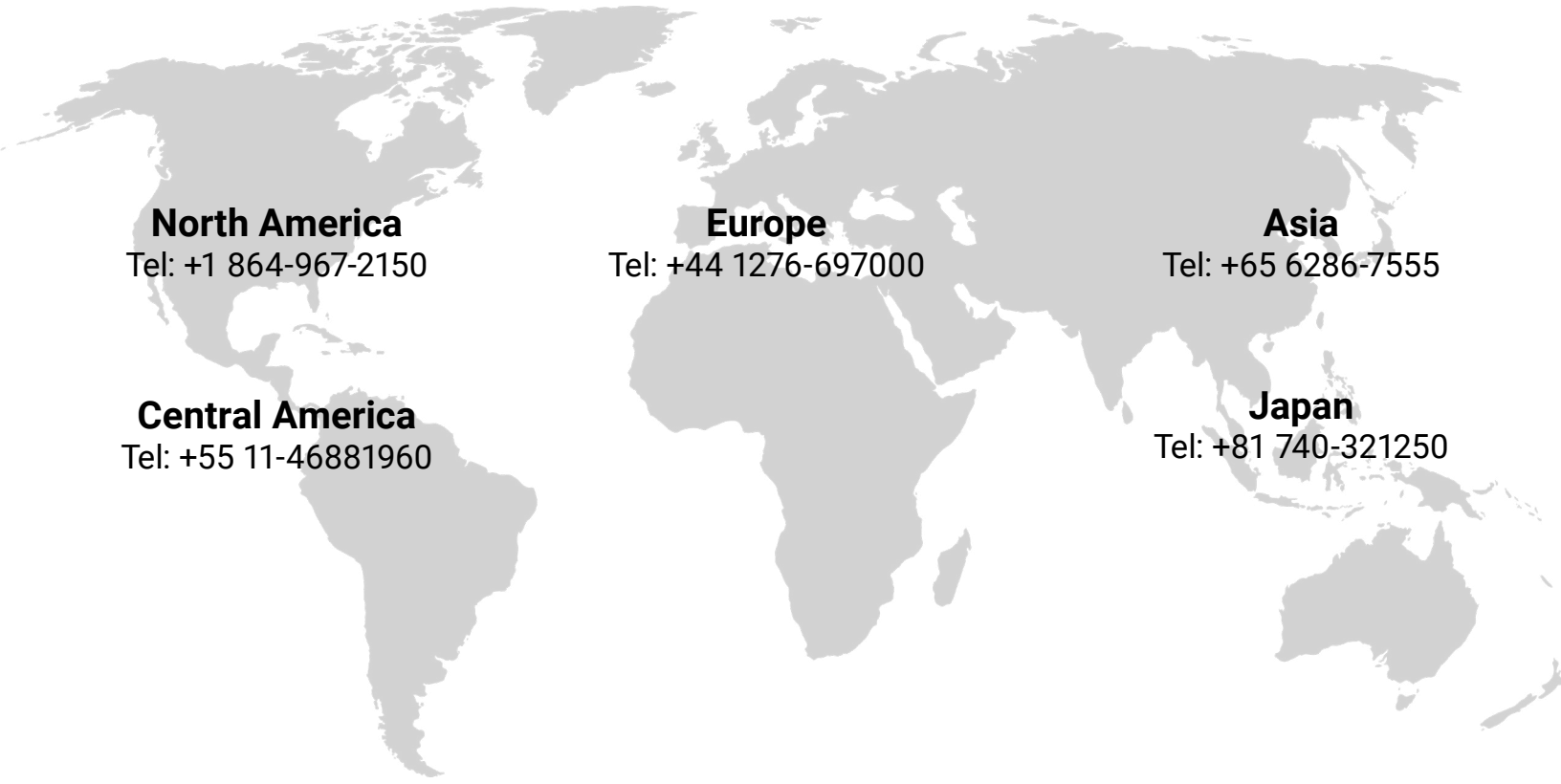
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