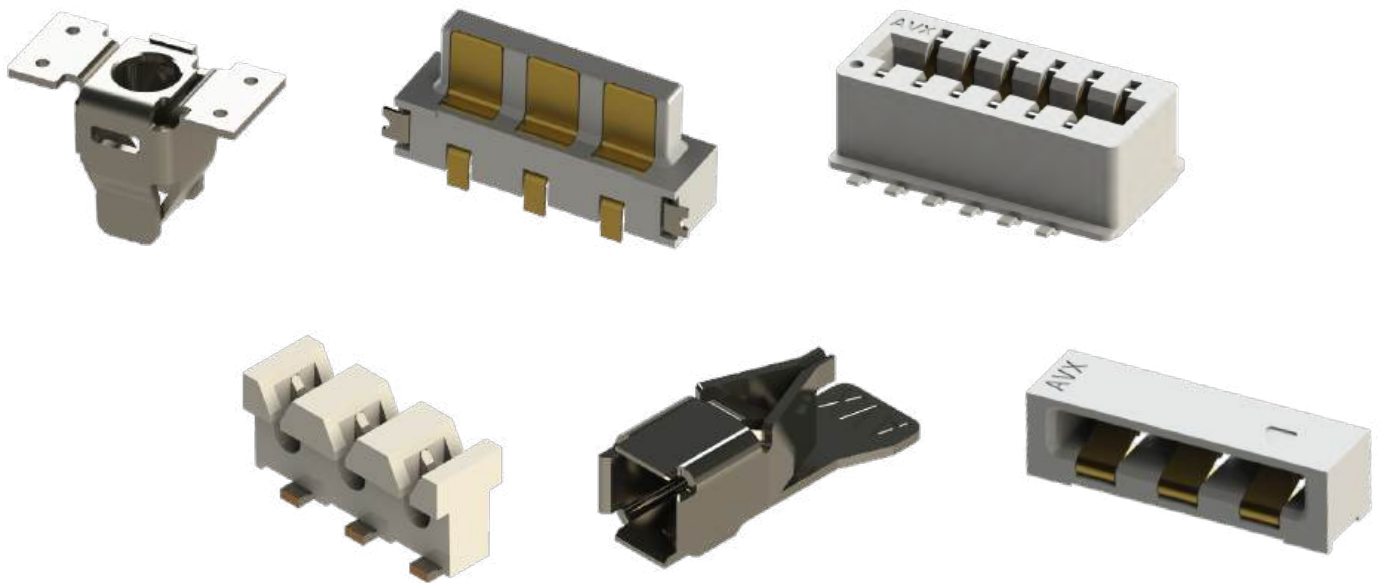




LIGHTING APPLICATION GUIDE



LIGHTING APPLICATIONS

From emergency transportation lighting to commercial refrigeration, Kyocera AVX has been a lighting solutions provider with connectors for over 20 years.

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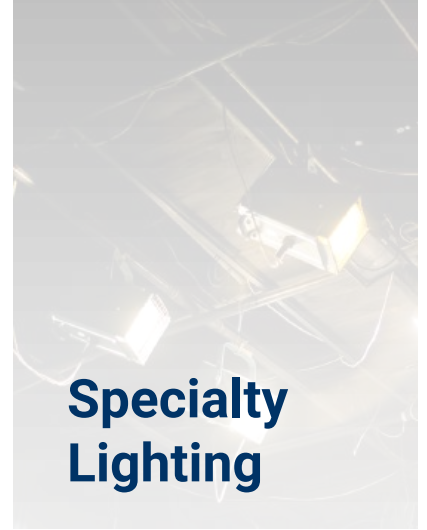
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Connector Application Navigator Guide

CONNECTOR TYPES	APPLICATIONS								FEATURES / ATTRIBUTES									
	Horticultural Lighting	Indoor Fixtures	Outdoor Fixtures	Signage	Specialty Lighting	Lighting Controls	Transportation Lighting	Max Current Rating (A)	Max Voltage Rating (VAC)	Operating Temperature Range	SMT Compatible	Wire Range (AWG)	Solid Wire	Stranded Wire	Wire to Board	Wire to Wire	Board to Board	Certifications
Thru-Wire Poke-Home Connectors	•	•	•	•	•	•	8	300	-40°C to 130°C		26 - 18	•	•		•			UL
Junction Box Poke-Home Connectors	•	•	•	•	•	•	10	300	-40°C to 130°C		26 - 18	•	•		•			UL
IDC Connectors	•	•	•	•	•	•	15	600	-40°C to 130°C	•	30 - 12	•	•	•		•		UL
IDC Contacts	•	•	•	•	•	•	15	600	-40°C to 130°C	•	30 - 12	•	•	•		•		UL
Inverted Thru-Board Poke-Home Connectors	•	•	•	•	•	•	7	600	-40°C to 125°C	•	26 - 18	•	•	•				UL
Vertical Poke-Home Connector	•	•	•	•	•	•	8	600	-40°C to 130°C	•	26 - 18	•	•	•				UL
Horizontal Poke-Home Connectors	•	•	•	•	•	•	10	600	-40°C to 130°C	•	26 - 18	•	•	•		•		UL
Horizontal Poke-Home Contacts	•	•	•	•	•	•	20	300	-40°C to 130°C	•	28 - 12	•	•	•		•		UL
Vertical Poke-Home Contacts	•	•	•	•	•	•	17	300	-40°C to 130°C	•	26 - 12	•	•	•				UL
Vertical Top Entry Card Edge Connectors	•	•	•	•	•	•	2	300	-40°C to 120°C	•						•		UL
Inverted Thru-Board Card Edge Connectors	•	•	•	•	•	•	2	300	-40°C to 120°C	•						•		UL
Dual Row Vertical Card Edge Connectors	•	•	•	•	•	•	2	300	-40°C to 125°C	•						•		UL
Dual Row Inverted Thru-Board Card Edge Connectors	•	•	•	•	•	•	2	300	-40°C to 125°C	•						•		UL
Linear/Coplanar Card Edge Connectors	•	•	•	•	•	•	3	300	-40°C to 125°C	•						•		UL
2-Piece Connectors and Contacts	•	•	•	•	•		5	300	-40°C to 125°C	•						•		UL
Jumper Pins	•	•	•	•	•		6.5	300	-40°C to 105°C							•		UL

Get more information on our website,
www.kyocera-avx.com
 by going to our Products page.

FEATURED APPLICATIONS





HORTICULTURE LIGHTING

FEATURED PRODUCTS



IDC Connectors

- » Allows for daisy chaining of PCBs and is potting compatible
- » Provides a gas-tight, cold welded wire termination for long term reliability
- » Suitable for use in higher vibration environments
- » Accepts 12 to 30 AWG solid or stranded wires



SIGNAGE

FEATURED PRODUCTS



Horizontal Poke-Home Connectors

- » Accepts 18 to 26 AWG solid or stranded wires
- » Simple strip and poke-home wire insertion with twist and pull wire extraction for re-usability
- » Achieves the lowest height possible within its wire size range for applications with limited space
- » High spring force, dual beam box contacts provide maximum mechanical stability and wire retention



Linear / Coplanar Card-Edge Connectors

- » Dual contacts provide positive contact force for enhanced reliability
- » Mates with standard $1.6 \pm 0.15\text{mm}$ PCB
- » Up to 3 amps per contact current rating meets robust application requirements
- » Easy installation



Thru-Wire Poke-Home Connectors

- » Provides space savings with low, 4mm in height profile
- » Simple strip and poke-home wire insertion with twist and pull wire extraction for re-usability
- » Accepts 18 to 24 AWG solid or stranded wires



Vertical Poke-Home Contacts

- » Provide both top and bottom entry for wire-to-board applications with FR4 or metal core PCBs
- » Accepts 12 to 26 AWG solid or stranded wires
- » Simple strip and poke-home wire insertion with twist and pull wire extraction for re-usability
- » Strip, dual-beam contact (no insulator) provides a cost-effective, discrete wire-to-board termination with maximum mechanical stability and wire retention



Vertical Poke-Home Connectors

- » Accepts 18 to 26 AWG solid or stranded, plated or un-plated wires
- » Dual Beam box contact provides maximum mechanical stability and wire retention
- » Simple strip and poke-home wire insertion with twist and pull wire extraction for reusability
- » UL approved up to 8 amps per contact and available from 1 to 6 positions



INDOOR LIGHTING

FEATURED PRODUCTS



2-Piece Connectors & Contacts

- » Designed to support horizontal or vertical board to board and wire to board applications
- » UL approved to support up to 5 amps per contact
- » Low profile contacts are 1.2mm above the PCB to prevent any shadowing effect
- » Gold plated contact system provides reliability in harsh environments



OUTDOOR LIGHTING

FEATURED PRODUCTS



Horizontal Poke-Home Connectors

- » Accepts 18 to 26 AWG solid or stranded wires
- » Simple strip and poke-home wire insertion with twist and pull wire extraction for re-usability
- » Achieves the lowest height possible within its wire size range for applications with limited space
- » High spring force, dual beam box contacts provide maximum mechanical stability and wire retention



Horizontal Poke-Home Contacts

- » Accepts 12 to 28 AWG solid or stranded wires
- » Simple strip and poke-home wire insertion with twist and pull wire extraction for re-usability
- » Dual Beam box contact provides maximum mechanical stability and wire retention
- » Designed without a wire stop to facilitate solid pin insertion capabilities for board-to-board and module-to-module application



IDC Connectors

- » Allows for daisy chaining of PCBs and is potting compatible
- » Provides a gas-tight, cold welded wire termination for long term reliability
- » Suitable for use in higher vibration environments
- » Accepts 12 to 30 AWG solid or stranded wires



IDC Contacts

- » Insulation displacement contact provides a cold welded, gas-tight connection to the PCB for long term reliability
- » Accepts 12 to 28 AWG solid or stranded wires
- » Tested to various levels of shock, vibration, and temperature cycling
- » Optional termination cap provides additional strain relief for severe environments



Vertical Poke-Home Contacts

- » Provide both top and bottom entry for wire-to-board applications with FR4 or metal core PCBs
- » Accepts 12 to 26 AWG solid or stranded wires
- » Simple strip and poke-home wire insertion with twist and pull wire extraction for re-usability
- » Strip, dual-beam contact (no insulator) provides a cost-effective, discrete wire-to-board termination with maximum mechanical stability and wire retention



SPECIALTY LIGHTING

FEATURED PRODUCTS



IDC Connectors

- » Allows for daisy chaining of PCBs and is potting compatible
- » Provides a gas-tight, cold welded wire termination for long term reliability
- » Suitable for use in higher vibration environments
- » Accepts 12 to 30 AWG solid or stranded wires



LIGHTING CONTROLS

FEATURED PRODUCTS



Dual Row Inverted Thru-Board Card-Edge Connectors

- » Gold plated BeCu contact system for high reliability in harsh environments
- » 2.5 Amps per contact current rating meets robust application requirements
- » Doubled number of positions with dual row solution for populating both sides of the PCB
- » Low profile thru-board design does not interfere with LEDs



Inverted Thru Board Poke-Home Connectors

- » Accepts 18 to 26 AWG solid or stranded, plated or un-plated wires
- » Dual Beam box contact provides maximum mechanical stability and wire retention
- » Simple strip and poke-home wire insertion with twist and pull wire extraction for re-usability
- » UL approved up to 7 amps per contact and available from 1 to 6 positions



Horizontal Poke-Home Connectors

- » Accepts 18 to 26 AWG solid or stranded wires
- » Simple strip and poke-home wire insertion with twist and pull wire extraction for re-usability
- » Achieves the lowest height possible within its wire size range for applications with limited space
- » High spring force, dual beam box contacts provide maximum mechanical stability and wire retention



Junction Box Poke-Home Connectors

- » Accepts 18 to 26 AWG solid or stranded wires
- » Designed to bring a single wire in and then have multiple output (bus structure) wires of the same power or signal
- » Simple strip and poke-home wire insertion with twist and pull wire extraction for re-usability
- » UL approved for up to 10 amps total and available with up to 8 positions



Vertical Poke-Home Connectors

- » Accepts 18 to 26 AWG solid or stranded, plated or un-plated wires
- » Dual Beam box contact provides maximum mechanical stability and wire retention
- » Simple strip and poke-home wire insertion with twist and pull wire extraction for reusability
- » UL approved up to 8 amps per contact and available from 1 to 6 positions



Transportation Lighting

FEATURED PRODUCTS



Linear / Coplanar Card-Edge Connectors

- » Dual contacts provide positive contact force for enhanced reliability
- » Mates with standard $1.6 \pm 0.15\text{mm}$ PCB
- » Up to 3 amps per contact current rating meets robust application requirements
- » Easy installation



Horizontal Poke-Home Contacts

- » Accepts 18 to 26 AWG solid or stranded wires
- » Simple strip and poke-home wire insertion with twist and pull wire extraction for reusability
- » Achieves lowest height possible within wire size range for applications with limited space
- » High spring force, dual beam box contacts provide maximum mechanical stability and wire retention



IDC Connectors

- » Allows for daisy chaining of PCBs and is potting compatible
- » Provides a gas-tight, cold welded wire termination for long term reliability
- » Suitable for use in higher vibration environments
- » Accepts 12 to 30 AWG solid or stranded wires



Inverted Thru Board Poke-Home Connectors

- » Accepts 18 to 26 AWG solid or stranded, plated or un-plated wires
- » Dual Beam box contact provides maximum mechanical stability and wire retention
- » Simple strip and poke-home wire insertion with twist and pull wire extraction for reusability
- » UL approved up to 7 amps per contact and available from 1 to 6 positions



Dual Row Vertical Card-Edge Connectors

- » Gold plated BeCu contact system for high reliability in harsh environments
- » 2.5 Amps per contact current rating meets robust application requirements
- » Doubled number of positions with dual row solution for populating both sides of the PCB
- » Available with mechanical keying to avoid error during insertion

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