



# Certificate of Compliance

**Certificate:** 1895053 (LR 78160-11)

**Master Contract:** 160740

**Project:** 2600395

**Date Issued:** March 14, 2013

**Issued to:** Kycon, Inc.  
305 Digital Dr.  
Morgan Hill, CA 95037  
USA

**Attention:** Jill Scarnecchia

*The products listed below are eligible to bear the CSA Mark shown*



**Issued by:** D. Hawkes

## PRODUCTS

**CLASS 6233 01 - RECEPTACLES - Attachment Plug Type and Plugs**

**CLASS 6233 81 - RECEPTACLES - Attachment Plug Type and Plugs - CERTIFIED TO U.S. STANDARDS**

Special-use Input/Output Data connectors, as tabled below.

Model	Description	Rating
37FX	Miniature Ribbon Connector with ferrite Vertical PCB Mount	1A DC, 42V DC
37FX	Miniature Ribbon Connector with ferrite, Right Angle PCB Mount	1A DC, 42V DC
37ROX	Miniature Ribbon Connector with ferrite, Right Angle PCB Mount, Reverse BL orientation	1A DC, 42V DC
37X	Miniature Ribbon Connector, Vertical PCB Mount	1A DC, 42V DC
37X	Miniature Ribbon Connector, Right Angle PCB Mount	1A DC, 42V DC
37XHT	Miniature Ribbon Connector, hi temp	1A DC, 42V DC
K-SCARTX	SCART Connector, Right Angle,	1A DC, 42V DC
56F	D-sub, Right Angle PCB Mount, .318" Footprint w/ Ferrite	2A DC, 42V DC



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56XHT	D-sub, Right Angle PCB Mount, .318" Footprint w/ Ferrite, High Temp	2A DC, 42V DC
56X	D-sub, Right Angle PCB Mount, .318" Footprint w/ Ferrite	2A DC, 42V DC
K11X	D-sub, 0.2" Footprint, B/L,	2A DC, 42V DC
K11XHT	D-sub, 0.2" Footprint, High Temp, B/L,	2A DC, 42V DC
K202XHT	D-sub, Right Angle Surface Mount	2A DC, 42V DC
K202XHT-E15	D-sub, Right Angle Surface Mount High Density	2A DC, 42V DC
K20XHT	D-sub, Right Angle Surface Mount	2A DC, 42V DC
K20XHT-E15	D-sub, Right Angle Surface Mount High Density	2A DC, 42V DC
K21XHT	D-sub, Right Angle Ultra Compact Footprint, High Temp, GR BR,	2A DC, 42V DC
K22KXX	D-sub, Right Angle Ultra Compact Footprint, High Temp, short BL	2A DC, 42V DC
K22SPX	D-sub, Right Angle PCB Mount.318" Footprint	2A DC, 42V DC
K22X	D-sub, Right Angle PCB Mount.318" Footprint,	2A DC, 42V DC
K22XHT	D-sub, Right Angle PCB Mount .318" Footprint, High Temp,	2A DC, 42V DC
K22XMT	D-sub, Right Angle PCB Mount.318" Footprint, Matte tin	2A DC, 42V DC
K31X	D-sub, Right Angle PCB Mount Ultra Compact Footprint,	2A DC, 42V DC
K31XHT	D-sub, Right Angle PCB Mount Ultra Compact Footprint, High Temp,	2A DC, 42V DC
K31XHTMT	D-sub, Right Angle PCB Mount Ultra Compact Footprint, High Temp, Matte Tin	2A DC, 42V DC
K31XMT	D-sub, Right Angle PCB Mount Ultra Compact Footprint, Matte Tin	2A DC, 42V DC
K421X	D-sub, Multi Port	2A DC, 42V DC
K42KXX	D-sub, Multi Port	2A DC, 42V DC
K42X	D-sub, Multi Port	2A DC, 42V DC
K42XE15S2MD	D-sub, Multi Port High Density Female VESA over 6pin Mini-Din 15u PC99,	2A DC, 42V DC
K42X-E15	D-sub, Multi Port High Density ,	2A DC, 42V DC
K42XHT	D-sub, Multi Port High Temp,	2A DC, 42V DC
K42XMT	D-sub, Multi Port Matte Tin	2A DC, 42V DC
K44X	D-sub, Right Angle PCB mount.590" Footprint,	2A DC, 42V DC
K44XHT	D-sub, Right Angle PCB Mount.590" Footprint, High Temp,	2A DC, 42V DC
K44XMT	D-sub, Right Angle PCB mount.590" Footprint, Matte Tin	2A DC, 42V DC
K61X	D-sub, Right Angle PCB Mount Compact Footprint, High Density,	2A DC, 42V DC
K61XHT	D-sub, Right Angle PCB Mount Compact Footprint, High Density, High Temp	2A DC, 42V DC
K66X	D-sub, Right Angle, PCB Mount High Density ,	2A DC, 42V DC
K66XHT	D-sub, Right Angle, PCB Mount High Density , High Temp	2A DC, 42V DC
K77X	SCSI, Single and Dual,	2A DC, 42V DC
K808X	D-sub, Vertical, High Density,	2A DC, 42V DC
K83X	D-sub, Vertical, High Density, stamped & formed contacts,	2A DC, 42V DC
K853X	D-sub, Vertical, w/o shell, machined contacts,	2A DC, 42V DC
K85R1X	D-sub, Right Angle,.283" Footprint, Open Body,	2A DC, 42V DC



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K85R1XMT	D-sub, Right Angle,.283" Footprint, Open Body, Matte Tin	2A DC, 42V DC
K85R2X	D-sub, Right Angle, .370" Footprint, Open Body,	2A DC, 42V DC
K85RTELX	D-sub, Vertical PCB Mount, upside down shell	2A DC, 42V DC
K85RTELXMT	D-sub, Vertical PCB Mount, upside down shell, Matte Tin	2A DC, 42V DC
K85X	D-sub, Vertical PCB Mount, Soldercup,	2A DC, 42V DC
K85XHT	D-sub, Vertical PCB Mount, High Temp, Soldercup,	2A DC, 42V DC
K85XMT	D-sub, Vertical PCB Mount, Soldercup, Matte Tin	2A DC, 42V DC
K85ZCX	D-sub, Vertical PCB Mount, Soldercup, Zinc Chromate plating,	2A DC, 42V DC
K86X	D-sub, Vertical PCB Mount, High Density, Soldercup,	2A DC, 42V DC
K86XHT	D-sub, Vertical PCB Mount, High Density, Soldercup, High Temp	2A DC, 42V DC
K86XMT	D-sub, Vertical PCB Mount, High Density, Soldercup, Matte Tin	2A DC, 42V DC
K88X	D-sub, Vertical PCB Mount, High Profile,	2A DC, 42V DC
K96X	D-sub, Vertical High Profile,	2A DC, 42V DC
K99X	IDC Termination D-Sub,	4A DC, 42V DC
KCDLXHT	Circular Din, Low Profile, High Temp	2A DC, 24V DC
KCDMX	Circular Din, Molded Tape	2A DC, 24V DC
KCDPX	Circular Din, Panel Mount	2A DC, 24V DC
KCDX-xS-N OR N2	Circular Din, Right Angle PCB Mount, Non-Shielded,	2A DC, 24V DC
KCDX-xS-S OR S2	Circular Din, Right Angle PCB Mount, Shielded,	2A DC, 24V DC
KCDXHT-xC-S OR S2	Circular Din, Right Angle PCB Mount, Shielded, High Temp	2A DC, 24V DC
KCDXHT-xS-N OR N2	Circular Din, Right Angle, High Temp, Non-Shielded,	2A DC, 24V DC
KCDXHT-xS-S-PS	Circular Din, Right Angle, High Temp Shielded,	2A DC, 24V DC
KCDXHT-xS or S2-PS	Circular Din, Right Angle, High Temp Shielded,	2A DC, 24V DC
KDMX	Mini Din, Shielded	5A DC, 12V DC
KDPMX	Mini Display Port	3.3A DC, 500mA
KF22X	D-sub, Right Angle PCB Mount, .318" Footprint w/ Ferrite,	2A DC, 42V DC
KF22XHT	D-sub, Right Angle PCB Mount, .318" Footprint w/ Ferrite, High Temp	2A DC, 42V DC
KF42X	D-sub, Multi port, High Temp w/ Ferrite,	2A DC, 42V DC
KF42X-E15S	D-sub, Multi port, High Density w/ Ferrite,	2A DC, 42V DC
KF44X	D-sub, Right Angle PCB Mount, .590" Footprint w/ Ferrite,	2A DC, 42V DC
KF66X	D-sub, Right Angle PCB Mount, High density w/ Ferrite,	2A DC, 42V DC
KF66XHT	D-sub, Right Angle PCB Mount, High density w/ Ferrite, High Temp	2A DC, 42V DC
KF85X	D-sub, Vertical PCB Mount, Soldercup w/ Ferrite,	2A DC, 42V DC
KF86X	D-sub, Vertical PCB Mount, High Density, Soldercup w/ Ferrite,	2A DC, 42V DC
KF88X	D-sub, Vertical PCB Mount, High Profile w/ Ferrite,	2A DC, 42V DC
KF96X	D-sub, Vertical PCB Mount, High Profile w/ Ferrite, Machined	2A DC, 42V DC
KFMDGX	Mini Din, Right Angle , Full Shield w/ Ferrite, gold,	2A DC, 12V DC



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KFMDGXHT	Mini Din, Right Angle , Full Shield w/ Ferrite, gold, High Temp	2A DC, 12V DC
KFO42X	Optic Audio Connector Receiver/Transmitter Over 4 contact Mini-din,	2A DC, 12V DC
KFWPX	IEEE 1394 Plug, Short Body type,	1A DC, 42V DC
KFWSX	IEEE 1394 Socket, Short Body type,	1.5A DC, 40V DC
KFWSX-SMT	IEEE 1394 Socket, Surface Mount ,	1.5A DC, 40V DC
KFWPX-A	IEEE 1394 Plug, Short Body type,	1A DC, 42V DC
KFWSX-V	IEEE 1394 Vertical PC Mount Socket,	1A DC, 42V DC
KFWSXHT-PV	IEEE 1394 Vertical PC Mount Socket, High temp ,	1.5A DC, 40V DC
KHDSX	Edge Card Connector,	1A DC, 42V DC
KLDHCX	Power Jack, High Current	5A DC, 24V DC
KLDLX	Mini DC Power Jack	2.5A DC, 24V DC
KLDPX	Power Jack, Panel Mount	3.5A DC, 24V DC
KLDPX-0302	Power Jack, Panel Mount, High Current	5A DC, 24V DC
KLDVHCX	Power Jack, Vertical, High Current	5A DC, 24V DC
KLDVX	Power Jack, Vertical,	3.5A DC, 24V DC
KLDVX-SMT	Power Jack, vertical, Surface Mount,	3.5A DC, 24V DC
KLDX-0201	Power Jack, 1.0mm pin diameter	2.5A DC, 24V DC
KLDX-0202	Power Jack, 2.0 and 2.5mm pin diameter	3.5A DC, 24V DC
KLDX-PA	DC Power Plug with Overmold	5A, 30V dc
KLDXHT-0201	Power Jack , High Temp, 1.0mm pin diameter	2.5A DC, 24V DC
KLDXHT-0202	Power Jack , High Temp, 2.0 and 2.5mm pin diameter	3.5A DC, 24V DC
KLDX-SMT-0202	Power Jack, SMT, 2.0 and 2.5mm pin diameter	3.5A DC, 24V DC
KLDX-SMT2-0202	Power Jack, SMT, 2.0 and 2.5mm pin diameter	3.5A DC, 24V DC
KLDX-SMT-0201	Power Jack- SMT, 1.0mm pin diameter	2.5A DC, 24V DC
KLDVX-SMT02	Power Jack, SMT, Vertical	3.5A DC, 24V DC
KLP42X	Stacked RCA Jack	0.3A DC, 16V DC
KMAX	Mini USB A-type receptacle	1A DC, 30V DC
KMAX-SMT	Mini USB A-type receptacle, SMT, White Insulator,	1A DC, 30V DC
KMABX-SMT	Mini USB AB-type receptacle, SMT, Grey Insulator,	1A DC, 30V DC
KMBVX	Mini USB Vertical	1A DC, 30V DC
KMBX	Mini USB B-type receptacle	1A DC, 30V DC
KMBEX	Mini USB B-type receptacle	1A DC, 30V DC
KMBVEX	Mini USB B-type receptacle, vertical	1A DC, 30V DC
KMDAX-xP	Mini-Din assembly plug,	2A DC, 12V DC
KMDAX-xS	Mini-Din assembly socket,	2A DC, 12V DC
KMDGX	Mini-Din	2A DC, 12V DC



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KMDGXHT	Mini-Din, High Temp	2A DC, 12V DC
KMDLAX-xP	Mini-Din, Snap and Lock Plug,	2A DC, 12V DC
KMDLX	Mini-Din, Snap and Lock	2A DC, 12V DC
KMDMX	Mini-Din Plug, Molded,	2A DC, 12V DC
KMDPLX	Mini-Din, Panel Mount, Snap and Lock,	2A DC, 12V DC
KMDPX P	Mini-Din, Panel Mount, Plastic Socket,	2A DC, 12V DC
KMDPX M	Mini-Din, Panel Mount, Metal Socket,	2A DC, 12V DC
KMDRLX	Mini-Din, Snap and Lock	2A DC, 12V DC
KMDRX	Mini-Din, Right Angle, Low Profile, Rounded Top, Full Shield,	2A DC, 12V DC
KMDTX-HT	Mini-Din, Right Angle,, Full Shield, High Temp	1A DC, 18V DC
KMDTX-SMT	Mini-Din, Right Angle, Surface Mount, Full Shield,	1A DC, 18V DC
KMDVLX	Mini-Din, Vertical, Snap and Lock Socket,	2A DC, 12V DC
KMDVLXHT	Mini-Din, Vertical, Snap and Lock Socket, High Temp	2A DC, 12V DC
KMDX-xS-N	Mini-Din, Right Angle, Non-Shielded,	5A DC, 12V DC
KMDX-xS-S	Mini-Din, Right Angle, Shielded,	5A DC, 12V DC
KMDX-xS-BS	Mini-Din, Right Angle, Side & Back Shield,	5A DC, 12V DC
KMDX-xS-FS	Mini-Din, Right Angle, Full Shield,	5A DC, 12V DC
KMFSX-PR	Mini IEEE 1394 Socket, Through Hole, Right Angle,	1A DC, 42V DC
KMFSX-SMT	Mini IEEE 1394 Socket, Surface Mount, Low Profile,	1A DC, 42V DC
KMMLX	Micro USB Midmount	1A DC, 30V DC
KMMX	Micro USB	1A DC, 30V DC
KPJX	Power Jack,	7.5A DC, 20V DC
KPJXHT	Power Jack, High Temp,	7.5A DC, 20V DC
KPPX	Power Plug,	7.5A DC, 20V DC
KQLAX-xP	Quick Lock Circ Cable Assembly Male,	2.5A DC, 24V DC
KQLAX-xS	Quick Lock Circ Cable Assembly Female,	2.5A DC, 24V DC
KQLX-xS-N	Quick Lock Circ PCB female, No Shield,	2.5A DC, 24V DC
KQLX-xS-S	Quick Lock Circ PCB Female, Shielded,	2.5A DC, 24V DC
KRCX	Edge Card Connector, Right Angle,	1A DC, 42V DC
KSATAX-V-SMT	Right Angle SAT	1.5A DC, 30V DC
KSOJX N	SOJ Socket, SMT .3 Wide Non-Polarized,	1A DC, 42V DC
KSOJX P	SOJ Socket, SMT .3 Wide Polarized,	1A DC, 42V DC
KUSBCX	USB Receptacle	1A DC, 30V DC
KUSBEX	USB Receptacle	1A DC, 30V DC
KUSBEX-SMT	USB Surface mount	1A DC, 30V DC
KUSBEX-SMT2	USB Receptacle Surface mount	1A DC, 30V DC
KUSBLPX	USB Type A Receptacle, Single, Low Profile,	1A DC, 30V DC
KUSBLPX-SMT	USB Type A Receptacle, Single, Low Profile, Surface Mount	1A DC, 30V DC
KUSBLX	USB Type A Receptacle, Single, Low Profile,	1A DC, 30V DC
KUSBLX-SMT	USB Type A Receptacle , SMT, Low Profile,	1A DC, 30V DC
KUSBTX	USB Receptacle	1A DC, 30V DC
KUSBTX-BS	USB Type B Receptacle w/tab,	1A DC, 30V DC



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KUSBVEX	USB Receptacle, Vertical	1A DC, 30V DC
KUSBVX	USB Receptacle, Vertical	1A DC, 30V DC
KUSBX	USB	1A DC, 30V DC
KUSBX-SMT	USB Receptacle, Surface Mount	1A DC, 30V DC
KUSBX-SMT2	USB Receptacle, Surface Mount	1A DC, 30V DC
KUSBXHT	USB Receptacle, High Temp	1A DC, 30V DC
KUSBXMT	USB Receptacle, Matte Tin	1A DC, 30V DC
KUSBXHT-SL1AS1	USB Type A Receptacle, High Temp, Slim, Upright,	1A DC, 30V DC
KUSBXSMT2BS	USB Type A Receptacle, Surface Mount, 2mm Pins,	1A DC, 30V DC
KVI42X	Stacked Digital/Analog Visual Interface Receptacle, Black,	1.5A DC, 42V DC
KVIX	Digital/Analog Visual Interface Receptacle, Black,	1.5A DC, 40V DC
KUSBX-BP	USB Type B Plug	1A DC, 30V DC
MDCX	Mini Din Jack R/A PCB Full Shield Ground Tab w/Front Spring,	2A DC, 12V DC
MP	Mod Plug,	1.5A DC, 30V DC
MPS	Mod Plug Shield,	1.5A DC, 30V DC
PX	Leadless Chip Carrier, PBT,	1A DC, 42V DC
PX -1	Leadless Chip Carrier PPS,	1A DC, 42V DC
KMBX	USB mini type	1A DC, 30V DC
SMPX	PLCC Socket, Surface Mount,	1A DC, 42V DC
STPX	Stereo Jack Panel Mount,	1A DC, 42V DC
STPX	Stereo Jack Vertical,	1A DC, 42V DC
STX	Stereo Jack	1A DC, 42V DC

**Notes:**

1. Supplied only to manufacturer's, as components, for the assembly of Certified electrical equipment, where the suitability of the combination in the end use is determined by CSA International.
2. Each model series may be followed by any number of alphanumeric characters that represent shell size, number of contacts, hardware options, plating options, polarization code, plastic colour and/or packaging.
3. Special-use connectors are not for interrupting current.
4. Rating tabled above represents maximum current and voltage ratings; models/series may be marked with a lower current and voltage rating.

**APPLICABLE REQUIREMENTS**

- CSA C22.2 No. 182.3-M1987 (R2009) - Special Use Attachment Plugs, Receptacles, and Connectors
- UL No. 1977 (Second Edition) - Component Connectors for Use in Data, Signal, Control and Power Applications



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### *Supplement to Certificate of Compliance*

*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

#### **Product Certification History**

<b>Project</b>	<b>Date</b>	<b>Description</b>
2600395	March 14, 2013	SMTC Compliance Review (February 14-15, 2013) and lower electrical rating marking.
2492225	Oct 5, 2012	Additional of Catalogue Numbers and alternate housing material.
2404416	Mar 23, 2011	SMTC Surveillance Audit and report update.
2249772	Dec 23, 2009	Update to report 1895053 to include new UL 1977, 2nd Edition requirements; SMTC Surveillance Audit.
2177793	Aug 11, 2009	Addition of Special-use Input/Output Data connector cat. nos. (see Attachment
1996635	Feb 13, 2008	Revision to rating of special-use connectors (acceptance of Category Program Test Data.
1895053	Jun 20, 2007	Update to LR 78160-11 to include new materials and report corrections. Supersedes report LR 78160-11