Winchester Electronics Presents...

KINGS® Brand Product

Broadcast Solutions

Headquarters
Winchester Electronics Corporation
62 Barnes Industrial Road North
Wallingford, CT 06492
203-741-5400

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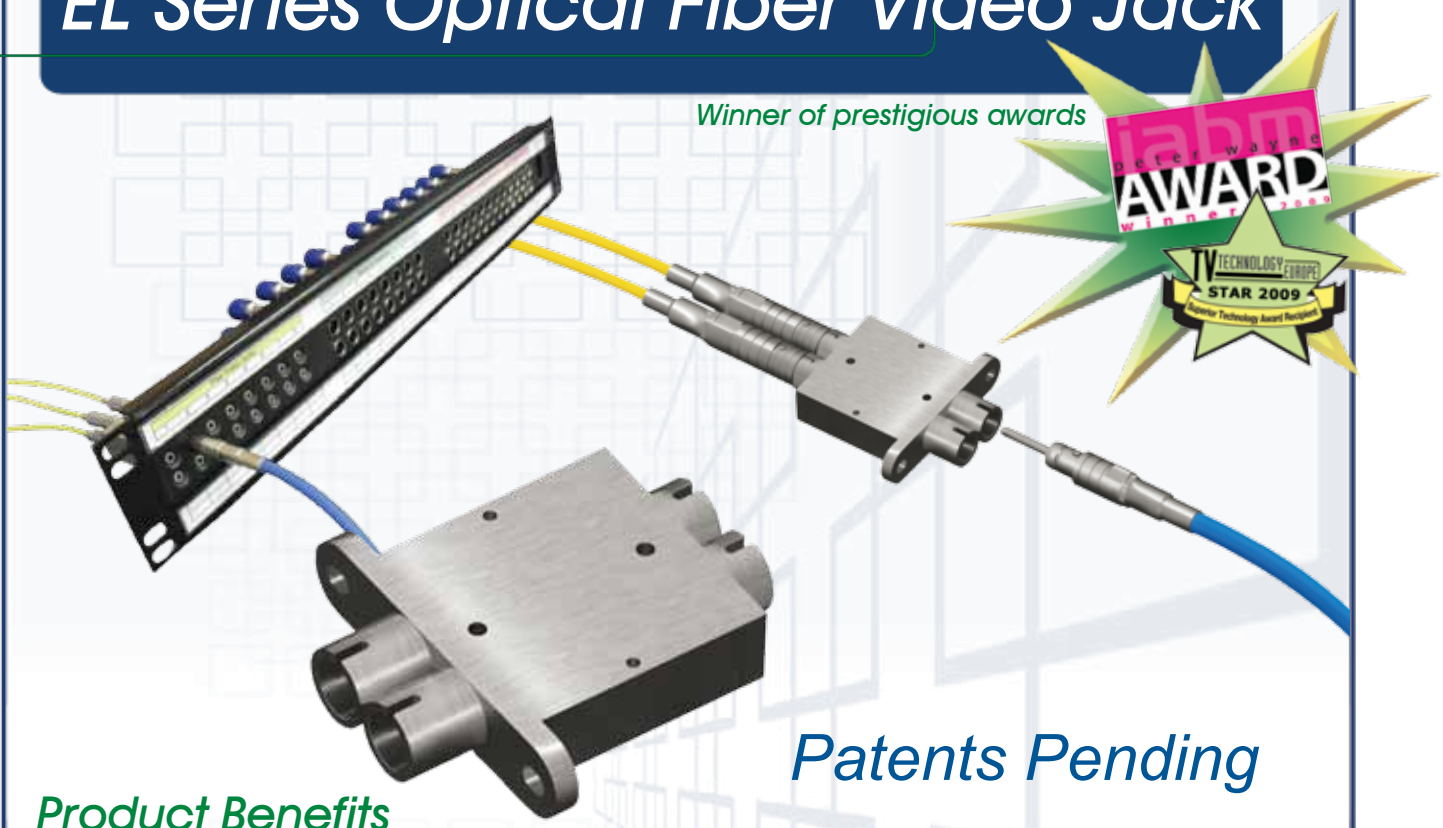
July 2011
www.winchesterelectronics.com

Winchester Electronics Presents...

EL Series Optical Fiber Video Jack

Winner of prestigious awards



Patents Pending

Product Benefits

- Full Normal/Self Normalizing
- *Expanded Light* beam connection scheme front and rear eliminates issues with dirt and scratches common with single-mode and multi-mode fiber connections.
- Small form factor allows easy integration into existing patch bays, up to 32 per jackfield.
- Fiber connection is “signal agnostic” allowing video, data, audio, internet protocol, analog, or any other signal to be transmitted.
- Rear DIN 1.0/2.3 style mechanical latching for security of Normal path.
- Mechanical optical switch requires no power and is designed for 10,000 mate/unmate cycles.
- Fully coated optics for low loss connections.

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Specifications

Material

Body	High Strength Stainless Steel

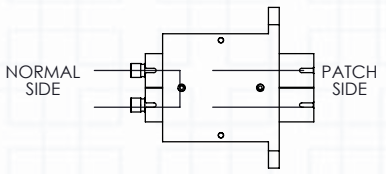
Mechanical

Patch Cord Mates	10,000 Cycles
Withdrawal Force (Patch Cord)	5 lbs. Minimum
Pull Force (Rear Side)	20 lbs. Minimum

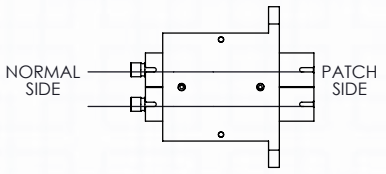
Optical

Insertion Loss Normal	1.5 dB Typical
Insertion Loss Patched	1.5 dB Maximum
Return Loss	55 dB Typical 45 dB Maximum

OPTICAL CONNECTION DIAGRAM



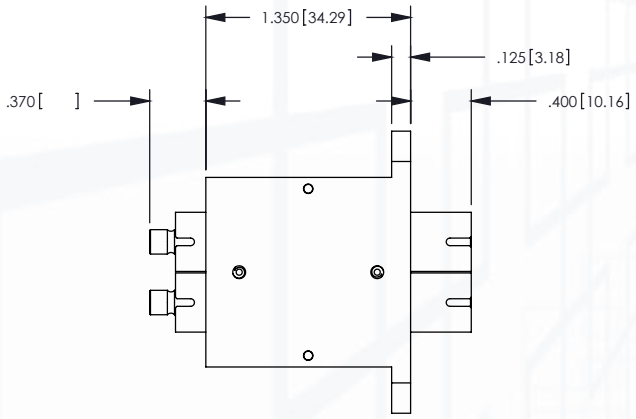
NORMAL THRU CONNECTION
NO PATCHCORD INSERTED

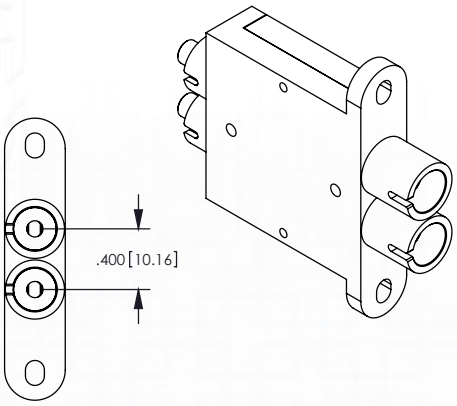


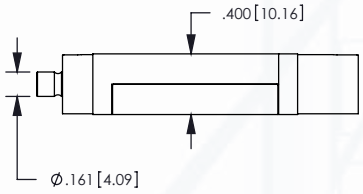
PATCHED CONNECTION
EITHER PATCH CORD INSERTED

Patents Pending

Dimension Drawings







Part Number: 776G-776-00001N

Description	Part Number
EL DIN™ Fiber Optic Removal Tool	107-1505
EL Series™ Optical Jack Assembly	776G-776-00001N
EL Series™ Optical Jack Assembly Normal	776G-009-00701N
EL Series™ Optical Single Jack Assembly	776G-776-00002N
EL Series™ Jackfield 32 Position-Normal	7767-776-00005N
EL Series™ Jackfield 32 Position-Normal w/16 Positions	7767-776-00006N
EL Series™ Jackfield 32 Position-Non Normal	7769-776-00001Z
EL Series™ Optical Jack Non-Normal	7769-776-00002Z
EL Series™ Jackfield 24 Position-Normal	7769-776-00003Z
EL Series™ Jackfield 32 Position-Non Normal w/8 Positions	7769-776-00004Z

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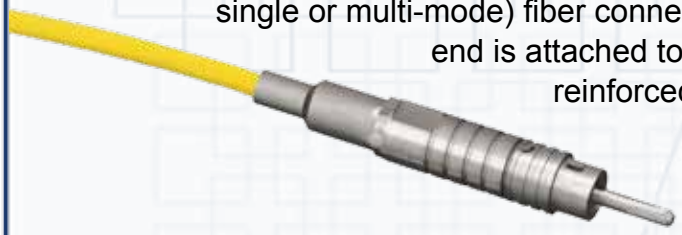
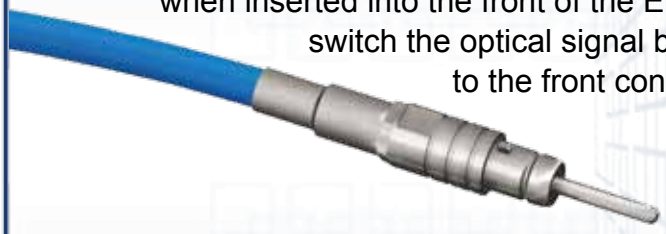
Winchester Electronics Presents...

EL Series Optical Fiber Patch Cords

The *Expanded Light* DIN connect patch cord is similar in function to the traditional BNC to BNC installed copper wiring terminated to the rear of a copper jackfield. This patch cord has an EL-DIN connector on one end and an industry standard LC, SC, FC, ST, (or any single or multi-mode) fiber connector on the other end. The EL-DIN connector end is attached to the rear of the EL-Video Jack and the Kevlar reinforced fiber is routed to the termination point at the router, or traditional fiber distribution frame.



The *Expanded Light* Quick Connect (EL-QC) is similar in function to a copper video patch cord. With the EL-QC connector on either end of a 5mm bend-insensitive rugged fiber, when inserted into the front of the EL Optical Fiber Video Jack, it will automatically switch the optical signal being routed through the back of the video jack to the front connectors.



Patents Pending

Product Benefits

- *Expanded Light* beam connection scheme eliminates issues with dirt and scratches common with single-mode and multi-mode fiber connections.
- Non contact optical connection eliminates deterioration of insertion and return loss over matings; no cleaning required.
- Rugged cable jacket offers same physical usage characteristics as copper.
- Kevlar reinforcement provides high pull strength.
- Bend-insensitive fiber allows for small bend radius without any increased insertion loss.
- Fiber connection is “signal agnostic” allowing video, data, audio, internet protocol, analog, or any other signal to be transmitted.
- Front push/pull connection allows easy insertion and withdrawal.
- Components made of high-strength stainless steel.
- Coated optics for low loss connections.

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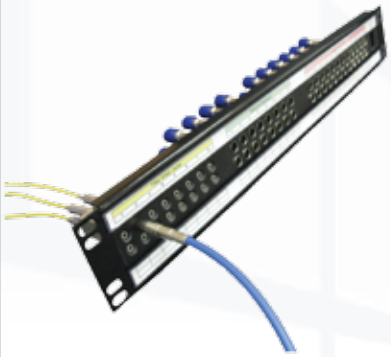
Material	Mechanical	Optical
Body	**Patch Cord Mates**	**Insertion Loss Normal**
High Strength Stainless Steel	10,000 Cycles	1.5 dB Typical
Optical Alignment Pin	**Withdrawal Force** (*Patch Cord*)	**Insertion Loss Patched**
High Strength Stainless Steel	5 lbs. Minimum	1.5 dB Typical
	Pull Force (*Rear Side*)	**Return Loss**
	20 lbs. Minimum	55 dB Typical 45 dB Minimum

Patents Pending

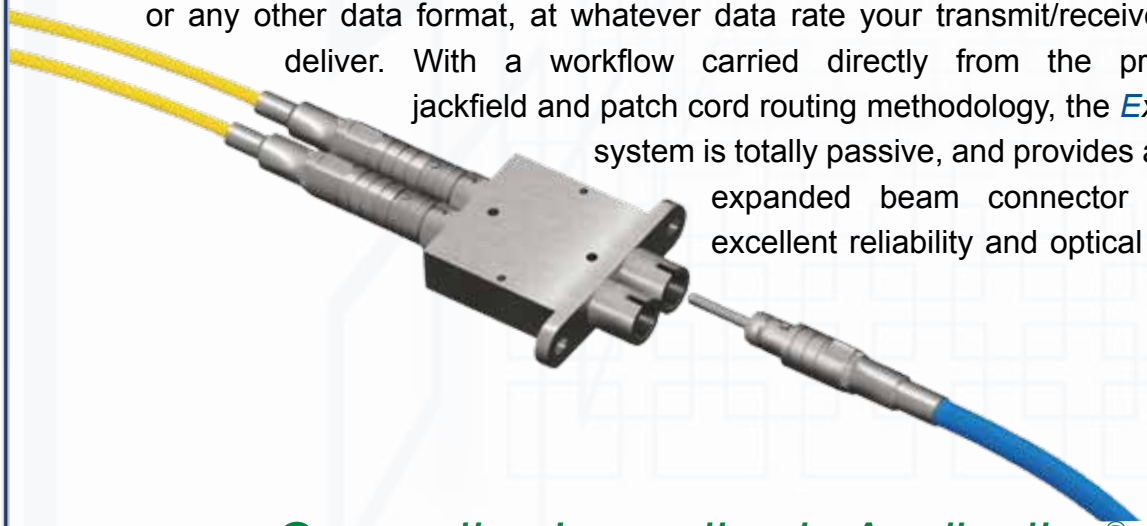


Description	Part Number
EL DIN™ Removal Tool	107-1505
EL Series™ Bare Fiber Cable Assembly Pigtail	776R-716-394014
EL Series™ DIN-SC Fiber Optic Cable Assembly (3M)	776L-700-118014
EL Series™ DIN-LC Fiber Optic Cable Assembly (3M)	776L-704-118014
EL Series™ DIN-FC SM Fiber Optic Cable Assembly (3M)	776L-710-118014
EL Series™ DIN-ST Fiber Optic Cable Assembly (3M)	776L-712-118014
Singlemode EL to EL Patch Cable w/5mm 9 / 125 Blue Cable (3M)	776L-776-118016

Note: Any length available - please contact sales for assistance.

The *Expanded Light* Patch Cords provide a new way to route broadcast signals over optical fiber.

Eliminating issues associated with single mode ferrule-based connections, the EL Patch Cords, combined with the EL Optical Fiber Video Jack (EL-VJ), provide a rugged and reliable way to carry, monitor, and route your high-speed signals. Totally signal agnostic, the fiber video jack is equally adept at carrying HDTV, SDI, Ethernet IP, Analog Video, or any other data format, at whatever data rate your transmit/receive system can deliver. With a workflow carried directly from the proven copper jackfield and patch cord routing methodology, the *Expanded Light* system is totally passive, and provides a single-mode expanded beam connector system with excellent reliability and optical performance.



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Winchester Electronics Presents...

Fiber Optic Tri-Loc® Camera Connector

The rugged stainless steel outer shell ensures a very long product life. When properly cleaned, the ceramic fiber optic contacts will last for thousands of mating cycles. The optical contacts are easily accessible by removing the unique alignment sleeve cartridge from the front of the connector for fast cleaning. The available cleaning kit and inspection tools help the user view the condition of the fiber optic contact and maintain cleanliness to ensure reliable operation.

Also newly available are the optional pre-terminated fiber optic contacts to provide the user a contact that can be terminated without polishing. It is intended for use in situations where it is critical that a cable be repaired quickly. They may be used indoors, in fixed installation environments, or in the field and will provide optical performance and reliability equal to that of a factory-polished connector. These are also ideal for the customer who wishes to make their own cables without the investment of time and money for the equipment or polishing process.

Product Benefits:

- Fewer components when compared to similar products currently on the market.
- Quick Disconnect Push/Pull self-latching system.
- ARIB (BTA S-1005B), ANSI/SMPTE (304-2009 & 311-2009), and EBU (R100-1999) compatible.
- Stainless steel shell for rugged and harsh environment.
- Optional pre-polished contacts for dependable fusion splicing.
- Crimp or solder electrical contacts.
- UL Certified

Specifications:

Electrical

Auxiliary Electrical Contacts

Voltage	600 Volts AC
Current	10 A

Low-Voltage Contacts

Voltage	42 V AC or 60 V DC
Current	1 A

Optical

Wavelength

1250 nm - 1625 nm

Insertion Loss

0.5 dB Max, 0.3 dB Typical

Return Loss

> -45 dB, -50 dB Typical

Environmental

Temperature Rating

Operating	-20°C to +60°C
Storage	-40°C to +75°C

Humidity

<95% RH (at +40°C)

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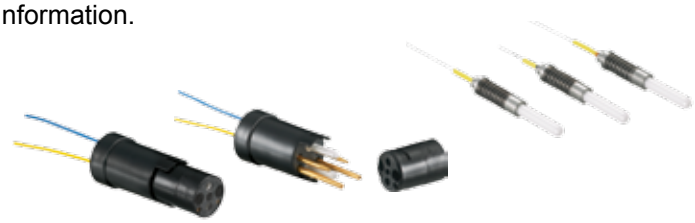
Winchester Electronics has partnered with the global leader in fusion splicing technology, AFL Telecommunications, to design a customized Fujikura fusion splicer for our Fiber Optic Tri-Loc® Camera Connectors. This partnership provides Winchester customers the best performance and value in the industry. Please contact Winchester Electronics for more information.



Optional pre-polished, pre-terminated Fiber Optic Contacts for dependable fusion splicing

Contacts easily accessible for fast cleaning by removing the unique alignment sleeve cartridge from the front of the connector with the available removal tool

Optional ruggedized dust caps and jackets available

Connectors	Part #
Fiber Optic Tri-Loc® Jack	7763-3-3
Fiber Optic Tri-Loc® Plug	7765-3-3
Fiber Optic Tri-Loc® Jack w/ Pre-Polished Splice on Termini	7763-4-3
Fiber Optic Tri-Loc® Plug w/ Pre-Polished Splice on Termini	7765-4-3

Protective Boots	Part #
Fiber Optic Tri-Loc® Jack Boot and Cap Kit	7760-000-00705Z
Fiber Optic Tri-Loc® Plug Boot and Cap Kit	7760-000-00704Z
Fiber Optic Tri-Loc® Jack Cap Kit	7760-000-00707Z
Fiber Optic Tri-Loc® Plug Cap Kit	7760-000-00706Z

Contact Repair Kits	Part #
Fiber Optic Tri-Loc® Jack Repair Kit	7760-000-00702Z
Fiber Optic Tri-Loc® Plug Repair Kit	7760-000-00701Z
Fiber Optic Tri-Loc® Jack Repair Kit w/ Pre-Polished Splice on Termini	7760-000-00709Z
Fiber Optic Tri-Loc® Plug Repair Kit w/ Pre-Polished Splice on Termini	7760-000-00708Z
Fiber Optic Tri-Loc® Plug Repair Kit w/ Cartridge	7760-000-00703Z
Fiber Tri-Loc® Pre-Polished Splice-On Termini	7760-000-00711Z

Tools	Part #
Tool Frame (Ergonomic)	KTH-5000
Die Set .068 / .384 for KTH-5000 Tool Frame	KTH-5018
Tool Frame (Large Bench)	KTH-1000
Die Set .068 / .384 for KTH-1000 Tool Frame	KTH-2035
Fiber Optic Tri-Loc® Universal Contact Removal Tool (all contacts)	KTH-2310
Fiber Optic Tri-Loc® Universal Contact Removal Tool w/ Swabs & Loaded Housings	KTH-2317
Fiber Optic Tri-Loc® Double Ended Contact Removal Tool (Same as KTH-2310) w/ Lemo® Removal End	KTH-2324

Cable assembly procedure available - please contact customer service.

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Fiber Optic Tri-Loc® Accessories

Boots/Lanyards

Qty/Pkg	Part Number	Description
1	7760-000-00704Z	Fiber Optic Tri-Loc® Boot SMPTE 304, Plug (7765-3-3, 7765-4-3)
1	7760-000-00705Z	Fiber Optic Tri-Loc® Boot SMPTE 304, Jack (7763-3-3, 7763-4-3)
1	7760-000-00706Z	Fiber Optic Tri-Loc® Lanyard Kit SMPTE 304, Plug (7765-3-3, 7765-4-3)
1	7760-000-00707Z	Fiber Optic Tri-Loc® Lanyard Kit SMPTE 304, Jack (7763-3-3, 7763-4-3)

Plug Repair Kit

Qty/Pkg	Part Number	Description
1	7760-000-00701Z	Fiber Optic Tri-Loc® Plug (7765-3-3, 7765-4-3) Repair Kit - Includes Components
Qty/Pkg	**Part Number**	**Description - Component Only**
1*	1-8156	Crimp Sleeve (Cable Shield Ferrule)
1*	78-0705	Rear O-Ring
1	78-1019	Shield Ground
2*	78-4006	Plug Female Crimp Contact
2*	78-4005	Plug Male Crimp Contact
2*	78-7016	Termini for Manual Polish w/ Protective Cap

Plug Repair Kit with Cartridge

Qty/Pkg	Part Number	Description
1	7760-000-00703Z	Fiber Optic Tri-Loc® Plug (7765-3-3, 7765-4-3) Repair Kit w/Cartridge - Includes Components
Qty/Pkg	**Part Number**	**Description - Component Only**
1*	1-8156	Crimp Sleeve (Cable Shield Ferrule)
1*	78-0705	Rear O-Ring
1	78-1019	Shield Ground
2*	78-4006	Plug Female Crimp Contact
2*	78-4005	Plug Male Crimp Contact
2*	78-7016	Termini for Manual Polish w/ Protective Cap
1*	78-7003	Plug Cartridge Assembly

Plug Repair Kit with Pre-Polished Splice-On

Qty/Pkg	Part Number	Description
1	7760-000-00708Z	FO Tri-Loc® Plug (7765-3-3, 7765-4-3) Repair Kit w/Pre-Polish Splice-On-Includes Components
Qty/Pkg	**Part Number**	**Description - Component Only**
2*	78-0429	Pre-Polished Termini w/ Protective Cap
2*	VNFPS01-900-34	Splice Protection Sleeve 34mm
1	78-1019	Shield Ground
1*	1-8156	Crimp Sleeve (Cable Shield Ferrule)
1*	78-0705	Rear O-Ring
2*	78-4006	Plug Female Crimp Contact
2*	78-4005	Plug Male Crimp Contact
2*	78-7016	Termini for Manual Polish w/ Protective Cap
1*	78-7003	Plug Cartridge Assembly

Jack Repair Kit

Qty/Pkg	Part Number	Description
1	7760-000-00702Z	Fiber Optic Tri-Loc® Jack (7763-3-3, 7763-4-3) Repair Kit - Includes Components
Qty/Pkg	**Part Number**	**Description - Component Only**
1*	1-8156	Crimp Sleeve (Cable Shield Ferrule)
1*	78-0705	Rear O-Ring
1	78-1019	Shield Ground
2*	78-4203	Jack Female Crimp Contact
2*	78-4204	Jack Male Crimp Contact
2*	78-7016	Termini for Manual Polish w/ Protective Cap

Jack Repair Kit with Pre-Polished Splice-On

Qty/Pkg	Part Number	Description
1	7760-000-00709Z	FO Tri-Loc® Jack (7763-3-3, 7763-4-3) Repair Kit w/Pre-Polish Splice-On - Includes Components
Qty/Pkg	**Part Number**	**Description - Component Only**
2*	78-0429	Pre-Polished Termini w/ Protective Cap
2*	VNFPS01-900-34	Splice Protection Sleeve 34mm
1	78-1019	Shield Ground
1*	1-8156	Crimp Sleeve (Cable Shield Ferrule)
1*	78-0705	Rear O-Ring
2*	78-4203	Jack Female Crimp Contact
2*	78-4204	Jack Male Crimp Contact
2*	78-7016	Termini for Manual Polish w/ Protective Cap
1*	78-7003	Plug Cartridge Assembly

Pre-Polished Splice-On Termini

Qty/Pkg	Part Number	Description
1	7760-000-007011Z	Fiber Optic Tri-Loc® Pre-Polished Splice-On Termini - Includes Components
Qty/Pkg	**Part Number**	**Description - Component Only**
2*	VNFPS01-900-34	Splice Protection Sleeve 34mm

Tools/Dies

Qty/Pkg	Part Number	Description
1	KTH-2310	Fiber Optic Tri-Loc® Universal Insert Removal Tool (All Contacts)
1	KTH-2317	Fiber Optic Tri-Loc® Universal Insert Removal Tool (Same as KTH-2310) w/ Swabs and Loaded Housings
1	KTH-2324	Fiber Optic Tri-Loc® Double-Ended Insert Removal Tool (Same as KTH-2310) w/ LEMO® Removal End
1	KTH-5000	Tool Frame (Ergonomic)
1	KTH-5018	Die Set .068/.384 for KTH-5000 Tool Frame
1	KTH-1000	Tool Frame (Large Bench)
1	KTH-2035	Die Set .068/.384 for KTH-1000 Tool Frame

*Bulk Packs Available

Qty	Part Number	Description	Qty	Part Number	Description	Qty	Part Number	Description
25	1-8156U	Crimp Sleeve (Cable Shield Ferrule)	25	78-3010U	Jack Insulator Half Side "A"	50	78-4203U	Jack Female Crimp Contact
10	78-0102U	4-40 Hex Set Screw	25	78-3011U	Jack Insulator Half Side "B"	50	78-4204U	Jack Male Crimp Contact
25	78-0301U	Washer for Rear Cable Seal	25	78-3012U	Plug Insulator Half Side "B"	10	78-7003U	Plug Cartridge Assembly
25	78-0701U	Rear Cable Seal	25	78-3013U	Plug Insulator Half Side "A"	10	78-7016U	Termini for Manual Polish w/ Prot Cap
25	78-0705U	Rear O-Ring	50	78-4005U	Plug Male Crimp Contact	50	VNFPS01-900-34U	Splice Protection Sleeve 34mm
10	78-1012U	Strength Member Support Clamp	50	78-4006U	Plug Female Crimp Contact	25	VNSC-748U	Jack Cap, Round LDPE, Red 002, .906" ID
						25	VNSC-3-4U	Plug Cap, Round LDPE, Red 002, .750" ID

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Winchester Electronics Presents...

Customized Fujikura Fusion Splicer

Winchester Electronics has partnered with the global leader in fusion splicing technology, AFL Telecommunications, to design a customized Winchester KINGS® Brand, Fujikura fusion splicer for our HDTV Fiber Optic Tri-Loc® Camera Connectors and EL-Series™ Video Patching System. This partnership provides Winchester customers with the best performance and value in the industry.

Our fixed V-groove and core alignment models incorporate a user-friendly interface with enhanced features to provide the most rugged and reliable fusion splicers in the market today. The new rugged construction adds improved reliability by resisting shock, dust, and rain, and can withstand a 30” drop test.

Product Benefits:

- Dual purpose design enables quick and easy conversion between standard single fiber fusion splicing and Winchester’s fiber splicing needs.
- Rugged construction providing shock, dust, and moisture resistance.
- Dual monitor position with automatic image orientation.
- Automatic arc calibration and fiber identification.
- User-selectable fiber clamping method - sheath clamp or fiber holders.
- Rugged SMPTE 311 cable holder for ease of use during splicing in the field.
- Auto-start tube heater feature.
- Color LCD display with anti-reflective coating for excellent visibility in bright sunlight.
- Simultaneous battery charge and splicer operation.
- Long battery life (up to 160 splice/heat cycles per charge).
- Detachable work table incorporated into the transit case.
- Data and video download software included; software upgrade available via the internet.
- Green friendly - RoHS & WEEE compliant.

KINGS® by WINCHESTER ELECTRONICS

Parts and Accessories

	FSM-18S V-Groove	FSM-60S Core Alignment
Fusion Splicer Kit with Winchester KINGS® Fiber Optic Tri-Loc® Modification (with cleaver) Includes: CT30A Cleaver, ADC-13 AC Adapter, ACC-14 AC Cord, Spare Electrodes (pair),Sheath Clamp, USB Cable, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, JP-05 Splice Sleeve Cooling Tray, and Transit Case with Carrying Strap	KTH-2315	KTH-2328
Fusion Splicer Kit with Winchester KINGS® Fiber Optic Tri-Loc® Modification (with cleaver, battery and cord) Includes: BTR-08 Battery, DCC-14 Battery Charge Cord, CT30A Cleaver, ADC-13 AC Adapter, ACC-14 AC Cord, Spare Electrodes (pair), Sheath Clamp, USB Cable, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, JP-05 Splice Sleeve Cooling Tray, and Transit Case with Carrying Strap	KTH-2330	KTH-2329

Accessories for FSM-18S/60S	Part Number
Cable Clamp for Fiber Optic Tri-Loc® Cable	KTH-2331
Fiber Holder for Fiber Optic Tri-Loc® Cable	KTH-2332
Fiber Holder for Fiber Optic Tri-Loc® Termini	KTH-2333
Fiber Optic Tri-Loc® Modification Upgrade for Standard FSM-60S/18S	KTH-2334
Fiber Holder for EL Series™ DIN Terminal	KTH-2335
CT-30A Cleaver (SO14080) Single Fibers: 250-900µm coating, 125µm cladding	KTH-2340
Fiber Optic Tri-Loc® CT-30A Cleaver Base / Use with Cable Clamp	KTH-2341

Specifications

Model	FSM-18S	FSM-60S
Cladding Diameter	125µm	100µm to 1,000µm
Typical Average Splice Loss	0.05dB with SM, 0.02dB with MM, 0.08dB with DS, 0.08dB with NZDS, measured by cut-back method relevant to ITU-T and IEC standards	0.02dB with SM, 0.01dB with M , 0.04dB with DS, 0.04dB with NZDS. Measured by cut-back method relevant to ITU-T and IEC standards
Splicing Time	Typical 11 seconds with standard single-mode fiber	Typical 9 seconds with standard single-mode fiber
Splice Loss Estimate	Based upon dual camera cladding axis alignment data	Based upon dual camera core alignment data
Operating Condition	0 to 3,660m above sea level, 0 to 95% RH, -10 to 50°C respectively	0 to 5,000m above sea level, 0 to 95%RH and -10 to 50°C respectively
Splice/Heat Cycles w/ Battery	Typical 150 cycles with power save functions activated	Typical 160 cycles with power save functions activated
Weight	2.1 kg (4.6 lbs) with AC adapter ADC-11; 2.5kg (5.5 lbs) with BTR-08 battery	2.3 kg (5.1 lbs) with AC adapter ADC-11; 2.7kg (5.9 lbs) with BTR-08 battery
Applicable Fibers	Single-mode (ITU-T G.652), multimode (ITU-T G.651), DS (ITU -T G.653), NZDS (ITU-T G.655)	
Coating Diameter	100µm to 1000µm	
Fiber Cleave Length	8 to 16mm with 250µm coating diameter, 16mm with 900µm coating diameter	
Arc Calibration Method	Automatic, real-time by using results of previous splice when in AUTO mode; manual arc calibration function available	
Splicing Modes	100 preset and user programmable modes	
Storage of Splice Result	Last 2000 results to be stored in the internal memory	
Fiber Display	X or Y, or both X and Y simultaneously; front or rear monitor display options with automated image orientation	
Magnification	300X for single X or Y view, or 187X for X and Y view	
Viewing Method	Dual cameras with 4.1 inch TFT color LCD monitor with anti-reflective coating	
Mechanical Proof Test	1.96 to 2.25N	
Tube Heater	Built-in tube heater with 30 heating modes; auto-start function	
Tube Heating Time	Typical 30 seconds with FP-03 sleeve, 35 seconds with FP3 (40), 35-55 seconds with Fujikura micro sleeves	
Protection Sleeve Length	60mm, 40mm, micro	
Power Supply	Auto voltage selection from 100 to 240V AC or 10 to 15V DC with ADC-1, 13.2V DC with BTR-08 battery	
Terminals	USB 1.1 (USB-B type) for PC communication, Mini-DIN (6-pin) for HJS-02/03 and SH-8 tube heater	
Wind Protection	Maximum wind velocity of 15m/s. (34 mph)	
Dimensions	136W x 161D x 143H (mm) / 5.3W x 6.3D x 5.6H (inches)	

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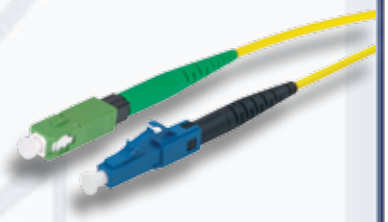
Winchester Electronics Presents...

AFL FuseConnect™ Connectors

Winchester Electronics has partnered with the global leader in fusion splicing technology, AFL Telecommunications, to offer FuseConnect™ fusion-spliced, field terminated connectors that are uniquely designed and feature just four components.



Our customized Fujikura fusion splicer is utilized to terminate the connectors in the field and these connectors are also compatible with other fiber holder-based fusion splicing platforms currently available.

FuseConnect™ connectors have an innovative four-component structure which eliminates the complexity of additional crimp ring parts, virtually eliminating the crimping operation.

Product Benefits:

- Field installable
- Only four components
- No adhesives, crimping, or polishing
- True APC performance
- MM compliant to TIA/EIA568C.3
- Compatible with most fusion splicers

FuseConnect™ in Fusion Splicer

Applications:

- Connectorization in:
  - *-Broadcast distribution*
  - *-RF-overlay FTTP networks*
  - *-Cable TV backbone networks*
  - *-Outside plant*
  - *-FTTDesk*
  - *-MDU FTTP Cabling*
- Central office connector replacement
- Data center installation

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Parts and Accessories

Part Number - 7005 Series	Fiber Optic - SC - Singlemode
7005-000-00701Z	SC UPC non-angled singlemode FuseConnect™ - 3mm, Blue
7005-000-00702Z	SC APC angled singlemode FuseConnect™ - 3mm, Green
7005-000-00703Z	SC UPC non-angled singlemode FuseConnect™ - 2mm, Blue
7005-000-00704Z	SC APC angled singlemode FuseConnect™ - 2mm, Green
7005-000-00705Z	SC UPC non-angled singlemode FuseConnect™ - 900µm, Blue
7005-000-00706Z	SC APC angled singlemode FuseConnect™ - 900µm, Green
Part Number - 7025 Series	**Fiber Optic - SC - Multimode**
7025-000-00701Z	SC PC 62.5µm multimode FuseConnect™ - 3mm, Beige
7025-000-00702Z	SC PC 50µm multimode FuseConnect™ - 3mm, Black
7025-000-00703Z	SC PC 50µm 10G multimode FuseConnect™ - 3mm, Aqua
7025-000-00704Z	SC PC 62.5µm multimode FuseConnect™ - 2mm, Beige
7025-000-00705Z	SC PC 50µm multimode FuseConnect™ - 2mm, Black
7025-000-00706Z	SC PC 50µm 10G multimode FuseConnect™ - 2mm, Aqua
7025-000-00707Z	SC PC 62.5µm multimode FuseConnect™ - 900µm, Beige
7025-000-00708Z	SC PC 50µm multimode FuseConnect™ - 900µm, Black
7025-000-00709Z	SC PC 50µm 10G multimode FuseConnect™ - 900µm, Aqua
Part Number - 7045 Series	**Fiber Optic - LC - Singlemode**
7045-000-00701Z	LC UPC non-angled singlemode FuseConnect™ - 2mm, Blue
7045-000-00702Z	LC UPC non-angled singlemode FuseConnect™ - 900µm, Blue
Part Number - 7065 Series	**Fiber Optic - LC - Multimode**
7065-000-00701Z	LC PC 62.5µm multimode FuseConnect™ - 2mm, Beige
7065-000-00702Z	LC PC 50µm multimode FuseConnect™ - 2mm, Black
7065-000-00703Z	LC PC 50µm 10G multimode FuseConnect™ - 2mm, Aqua
7065-000-00704Z	LC PC 62.5µm multimode FuseConnect™ - 900µm, Beige
7065-000-00705Z	LC PC 50µm multimode FuseConnect™ - 900µm, Black
7065-000-00706Z	LC PC 50µm 10G multimode FuseConnect™ - 900µm, Aqua
Part Number - KTH Series	**FuseConnect™ Installation Kits for:**
KTH-2336	FSM-17S-FH, FSM-17R, FSM-18S, FSM-18R, FSM-50R12, FSM-60S, FSM-60R12

Specifications

Parameter	Value
Connector Type	SC [TIA/EIA-604-3 (FOCIS 3)] / LC [TIA/EIA-604-10A (FOCIS 10)]
Cable Type	900µm, 2mm, 3mm
Polish	APC, UPC, PC
Insertion Loss	SM: 0.15dB (average), 0.3dB (maximum) / MM: 0.10dB (average), 0.3dB (maximum)
Return Loss	SM = > 65dB (APC), >55dB (UPC) / MM - > 30dB (PC)
Operating Temperature	-40°C to +75°C

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Winchester Electronics Presents...

Standard Size Video Jacks

7520 & 7780 Series
Analog or Digital, SD or HD Compliant

Product Benefits

- Meets SMPTE 424M (3G - SDI) and HDTV standards
- Frequency range: up to 3.5 GHz
- Mates with standard BNC plugs and standard (0.090” center pin) patch plugs
- 75 Ohm - suitable for Analog, Serial Digital, and HDTV applications
- Terminated, unterminated, and feed-through versions available in dual or single configurations

Specifications

Electrical

Impedance	75 Ohms	
Frequency Range	Dual Jacks:	DC to 3.5 GHz
	Single Jacks:	DC to 1.5 GHz
Return Loss	Dual Jacks:	-15 dB up to 2.4 GHz
		-10 dB up to 3.5 GHz
	Single Jacks:	-15 dB up to 900 MHz
	(self-terminated)	-10 dB up to 1.5 GHz

Material

Body	Zinc Alloy
Contacts	Beryllium Copper or Brass
Springs	Beryllium Copper
Insulators	Teflon® or Delrin®
Dielectrics	Zytel®

Environmental

Temperature Range	-40°C to +85°C
Moisture Resistance	MIL-STD-202, Method 106
Corrosion	MIL-STD-202, Method 101 Condition B

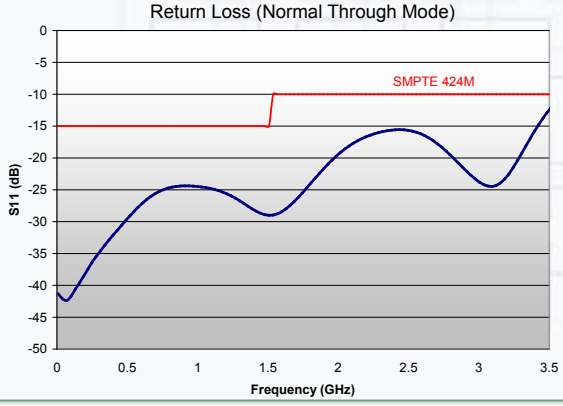
Mechanical

Life	50,000 Cycles
Withdrawal Force	3.0 lbs. Minimum

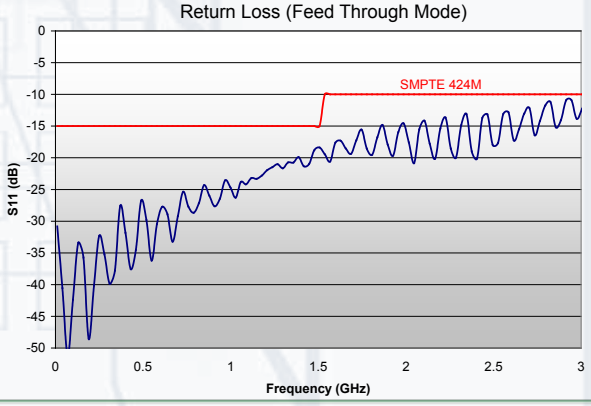
Finishes

Body	Nickel
Contacts	Gold

Dual Video Jack
Return Loss (Normal Through Mode)



Dual Video Jack
Return Loss (Feed Through Mode)



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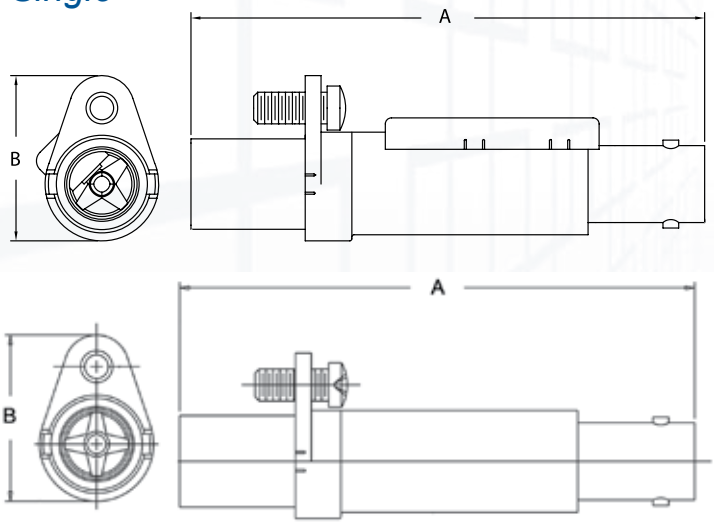
7520 & 7780 Series Standard Size Video Jacks

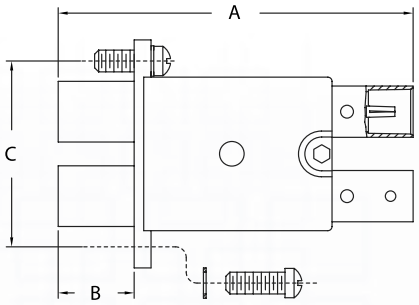
Video Jack		Dimensions		
P/N	Description	A	B	C
7520-9	Single, Unterminated	2.540	0.820	
7520-10	Single, Terminated	2.540	0.820	
7780-2	Dual, Terminated	2.650	0.560	1.380
7780-3	Dual, Unterminated	2.650	0.560	1.380
7780-4	Dual, Feed Through	2.650	0.560	
7780-5	Dual, Terminated, Threaded Flange	2.650	0.560	1.380
7780-6	Dual, Unterminated, Threaded Flange	2.650	0.560	1.380
7780-7	Dual, Feed Through, Threaded Flange	2.650	0.560	1.380

Dimension Drawings - Single and Dual

Single



Dual



Video Jackfield			
P/N	Configuration	P/N	Configuration
7785-6	1x24 Terminated	7785-40	1.5x28 Terminated
7785-29	1x24 Unterminated	7785-8	2x24 Terminated
7785-7	1x26 Terminated	7785-32	2x24 Unterminated
7785-31	1x26 Unterminated	7785-4	2x26 Terminated
7785-41	1.5x24 Terminated	7785-30	2x26 Unterminated

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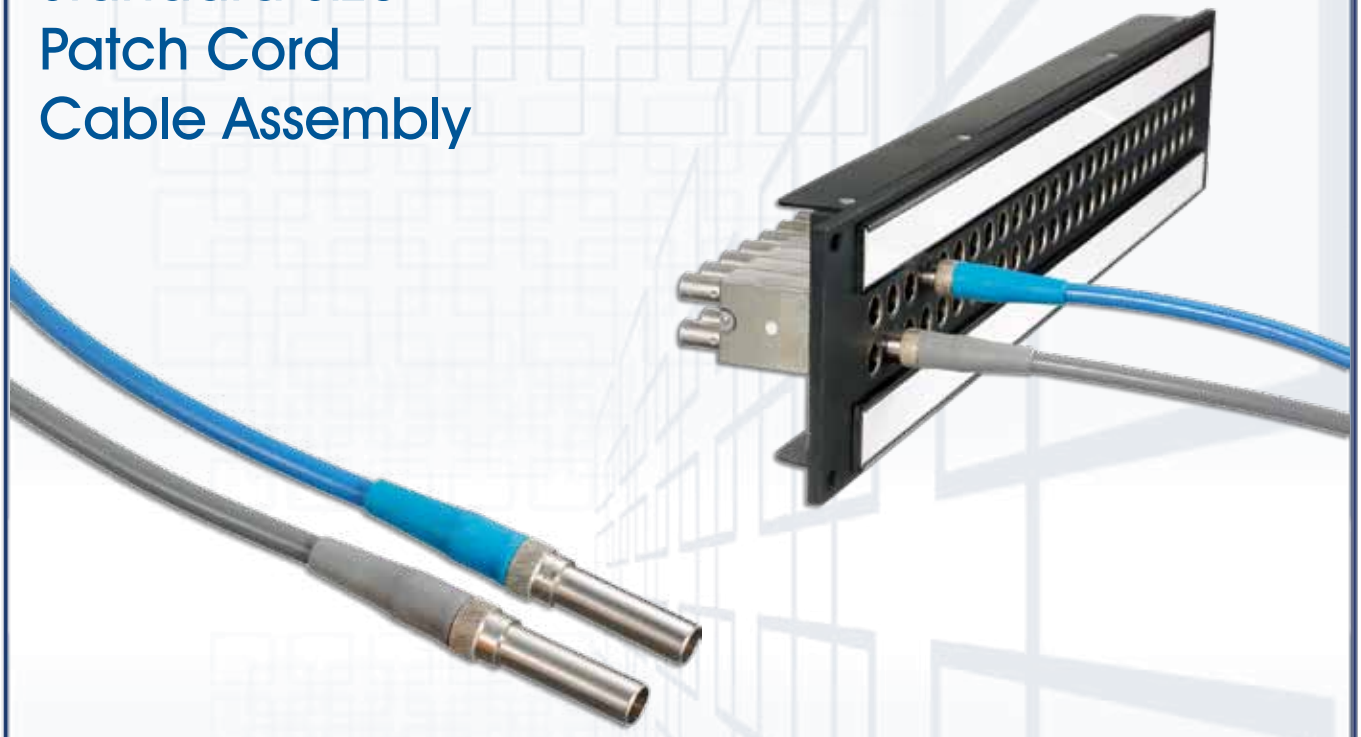
Winchester Electronics Presents...

8845 Series Patch Cords

Standard Size Patch Cord Cable Assembly



Product Benefits:

- Pre-assembled for quick and easy installation
- 10 popular colors for visual signal identification or other personalization
- Matching protective boots also included
- Each assembly contains two KINGS® Standard Size 75 Ohm patch plugs (7510-16)
- Terminated to Belden 1694A or equivalent cable in a variety of lengths

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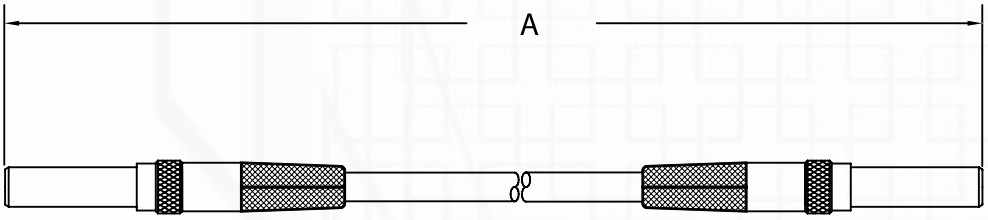

Part Number	DIM A ± 1.25
K-8845-012-YY	12.00
K-8845-018-YY	18.00
K-8845-024-YY	24.00
K-8845-036-YY	36.00
K-8845-048-YY	48.00
K-8845-060-YY	60.00
K-8845-072-YY	72.00
K-8845-084-YY	84.00
K-8845-096-YY	96.00
K-8845-120-YY	120.00

YY	COLOR
-01	BROWN
-02	RED
-03	ORANGE
-04	YELLOW
-05	GREEN
-06	BLUE
-07	VIOLET
-08	GREY
-09	WHITE
-10	BLACK

K-8845-XXX-YY

Color

Length “A” in inches

Series Part Number

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Winchester Electronics Presents...

7785 Series Dual Video Jackfields

Standard Size
Analog or Digital
SD or HD Compliant

Product Benefits

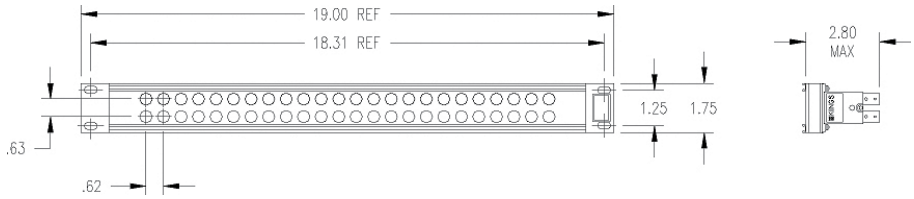
- 75 Ohm performance suitable for Analog, Serial Digital, and HDTV
- Dual Video Jacks mounted to standard 19” panels
- Mates with standard-sized patch plugs (0.37” diameter, 0.090” center pins)
- Terminated & Unterminated versions available
- 50,000 cycles minimum

Specifications

Material

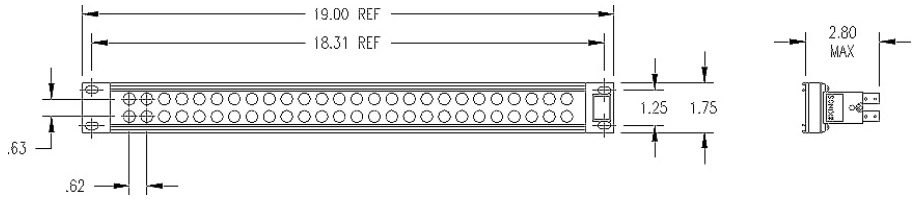
Panel	Smooth Black Phenolic
Labels	Designation Strip with Clear Plastic Cover

Part Number	Configuration
7785-6	1x24 terminated
7785-29	1x24 non terminated
7785-7	1x26 terminated
7785-31	1x26 non terminated



P/N 7785-6 *1 RU high Video Jackfield includes 24 Video Jacks, P/N 7780-2, terminated*

P/N 7785-29 *1 RU high Video Jackfield includes 24 Video Jacks, P/N 7780-3, non terminated*



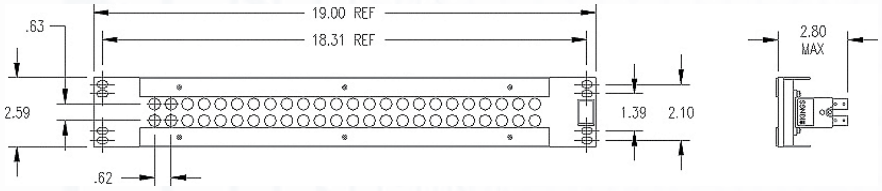
P/N 7785-7 *1 RU high Video Jackfield includes 26 Video Jacks, P/N 7780-2, terminated*

P/N 7785-31 *1 RU high Video Jackfield includes 26 Video Jacks, P/N 7780-3, non terminated*

KINGS® by WINCHESTER ELECTRONICS

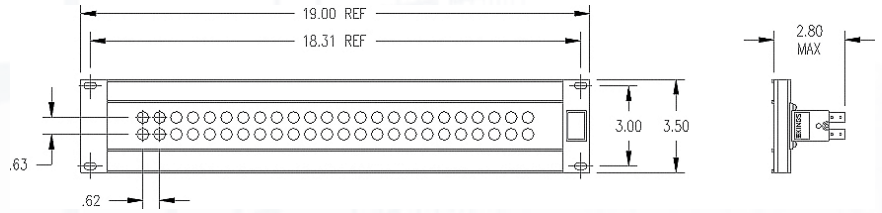
7785 Series Dual Video Jackfields

Part Number	Configuration
7785-41	1.5x24 terminated
7785-40	1.5x28 terminated
7785-8	2x24 terminated
7785-32	2x24 non terminated
7785-4	2x26 terminated
7785-30	2x26 non terminated



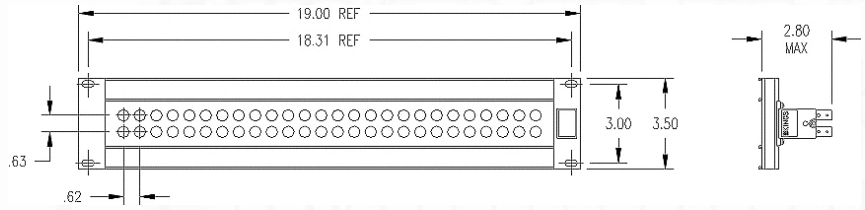
P/N 7785-41 *1.5 RU high Video Jackfield includes 24 Video Jacks, P/N 7780-2, terminated*

P/N 7785-40 *1.5 RU high Video Jackfield includes 28 Video Jacks, P/N 7780-2, terminated*



P/N 7785-8 *2 RU high Video Jackfield includes 24 Video Jacks, P/N 7780-2, terminated*

P/N 7785-32 *2 RU high Video Jackfield includes 24 Video Jacks, P/N 7780-3, non-terminated*



P/N 7785-4 *2 RU high Video Jackfield includes 26 Video Jacks, P/N 7780-2, terminated*

P/N 7785-30 *2 RU high Video Jackfield includes 26 Video Jacks, P/N 7780-3, non-terminated*

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Winchester Electronics Presents...

Mid-Size Video Jacks

7772 & 7790 Series
Analog or Digital, SD or HD Compliant

Product Benefits

- Meets SMPTE 424M (3G-SDI) and HDTV standards
- Offers higher panel density and increased frequency range
- Mates with standard BNC plugs and mid-size (0.050” center pin) patch plugs
- 75 Ohm - suitable for Analog, Serial Digital, and HDTV applications
- Terminated, unterminated, and feed-through versions available in dual or single configurations

Specifications

Electrical

Impedance	75 Ohms	
Frequency Range	Dual Jacks:	DC to 4.1 GHz
	Single Jacks:	DC to 3.0 GHz
Return Loss	Dual Jacks:	-20 dB up to 2.4 GHz
		-10 dB up to 4.1 GHz
	Single Jacks:	-20 dB up to 1.5 GHz
	(self-terminated)	-10 dB up to 3.0 GHz

Material

Body	Brass or Zinc Alloy
Contacts	Beryllium Copper
Springs	Beryllium Copper
Insulators	Teflon®
Dielectrics	Topas®

Environmental

Temperature Range	-40°C to +85°C
Moisture Resistance	MIL-STD-202, Method 106
Corrosion	MIL-STD-202, Method 101

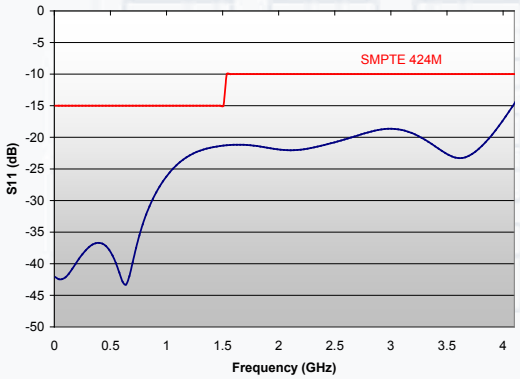
Mechanical

Life	30,000+ Cycles
Withdrawal Force	2.0 lbs. minimum

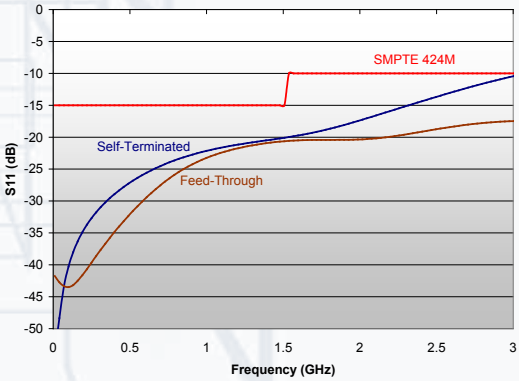
Finishes

Body	Nickel
Contacts	Gold

Dual Video Jack
Return Loss (Normal Through Mode)



Single Video Jack
Return Loss (Self-terminated and Feed-through Modes)



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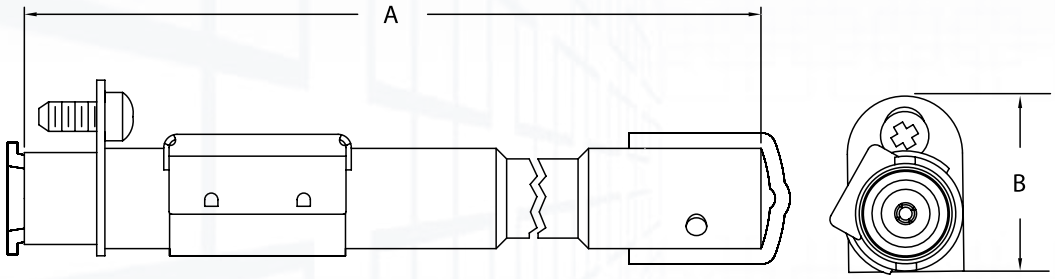
7772 & 7790 Series Mid-Size Video Jacks

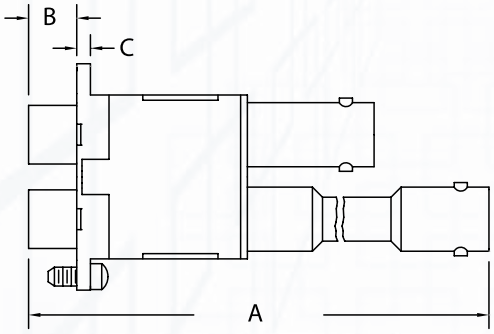
Video Jack		Dimensions		
P/N	Description	A	B	C
7772-1	Single, Unterminated, Short	2.060	0.665	
7772-2	Single, Unterminated, Long	3.389	0.665	
7772-3	Single, Terminated, Short	2.060	0.359	0.665
7772-4	Single, Terminated, Long	3.389	0.359	0.665
7790-2	Dual Normal Terminated	3.375	0.285	0.081
7790-3	Dual Normal Unterminated	3.375	0.285	0.081
7790-4	Dual Feed Thru Mode	3.375	0.285	0.081

Dimension Drawings - Single and Dual

Single



Dual



Video Jackfield	
P/N	Configuration
7795-1	1x24 Term
7795-11	1x30 Term
7795-12	1x32 Term
7795-13	1x34 Term
7795-14	1.5x32 Term

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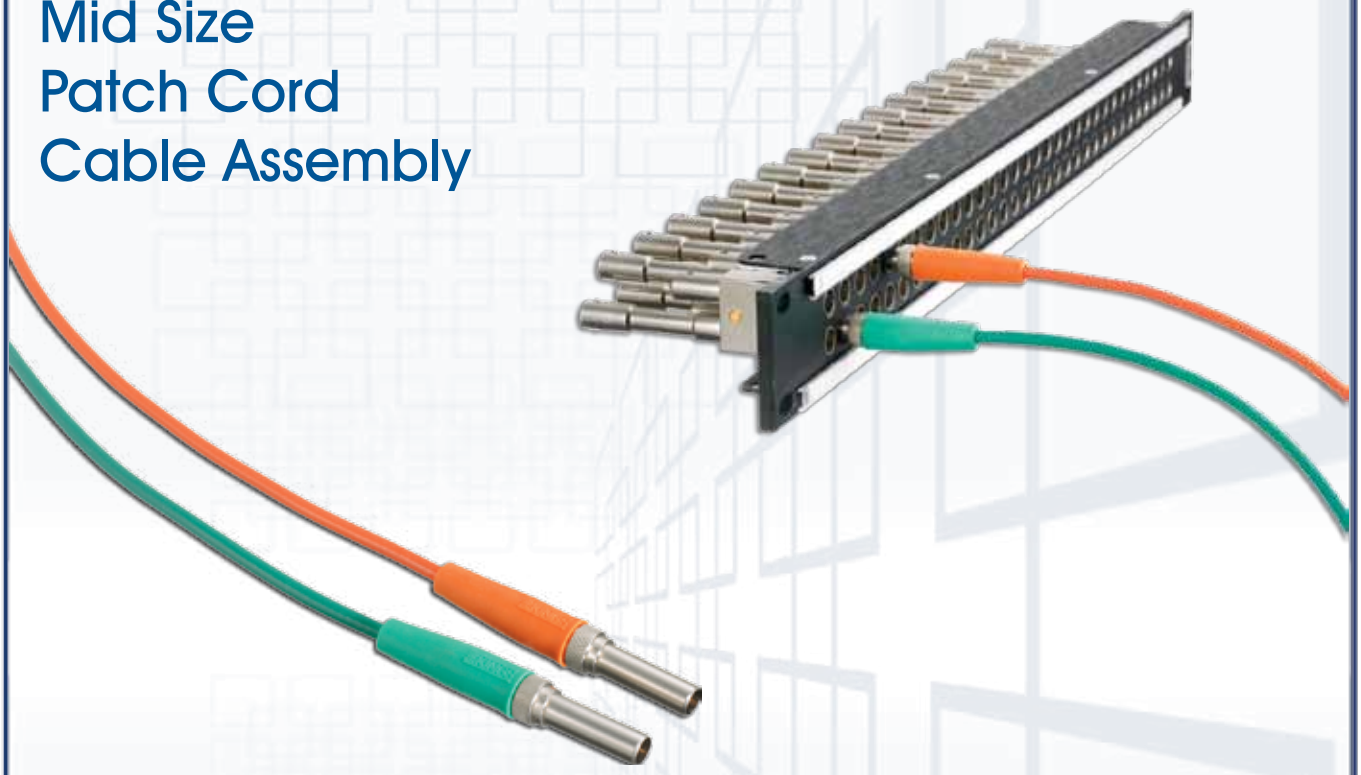
Winchester Electronics Presents...

8846 Series Patch Cords

Mid Size Patch Cord Cable Assembly



Product Benefits:

- Pre-assembled for quick and easy installation
- 10 popular colors for visual signal identification or other personalization
- Matching protective boots also included
- Each assembly contains two KINGS® Mid-size 75 Ohm patch plugs (7410-10)
- Terminated to Belden 1855A or equivalent cable in a variety of lengths

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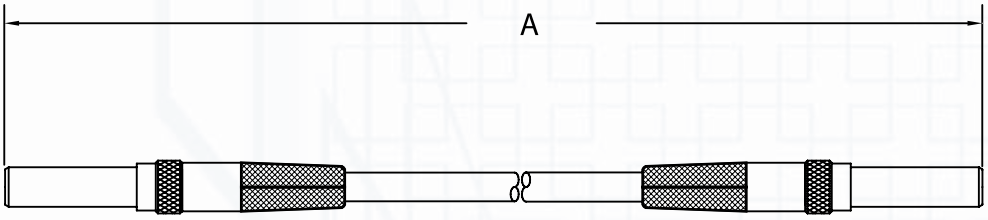

Part Number	DIM A ± 1.25
K-8846-012-YY	12.00
K-8846-024-YY	24.00
K-8846-036-YY	36.00
K-8846-048-YY	48.00
K-8846-060-YY	60.00
K-8846-072-YY	72.00
K-8846-096-YY	96.00
K-8846-120-YY	120.00
K-8846-144-YY	144.00
K-8846-288-YY	288.00

YY	COLOR
-01	BROWN
-02	RED
-03	ORANGE
-04	YELLOW
-05	GREEN
-06	BLUE
-07	VIOLET
-08	GREY
-09	WHITE
-10	BLACK

K-8846-XXX-YY

Color

Length “A” in inches

Series Part Number

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Winchester Electronics Presents...

7795 Series Video Jackfields

Mid-Size
Analog or Digital
SD or HD Compliant

Mates with .300 inch diameter
Mid-Size Patch Plugs

Specifications:

High Density:	Up to 34 Jacks 1 and 1.5 rack unit high panels
High Frequency:	Usable from Analog, Serial Digital, and HDTV
Impedance:	75 Ohms nominal
Panel Material:	Black phenolic with smooth black finish on outside face
Designation Strip:	Designation strip and clear plastic cover

Product Benefits:

- Designed to significantly exceed SMPTE 424M requirements
- Dual Normal Terminated (7790-2)
- Dual Normal Unterminated (7790-3)
- Dual Feed Thru Model (7790-4)
- 30,000 cycles minimum

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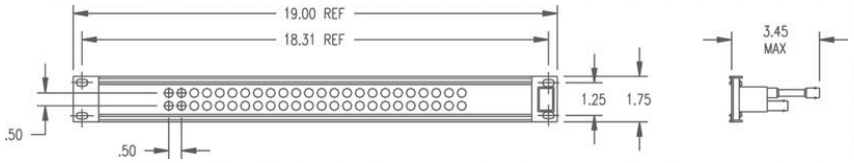
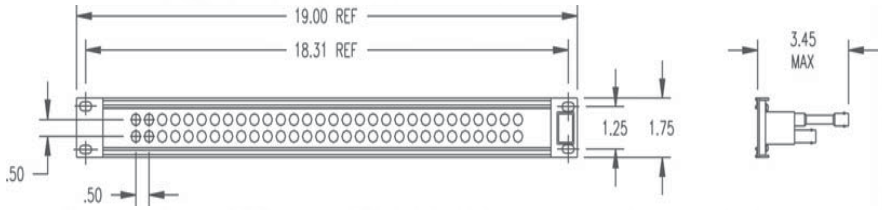
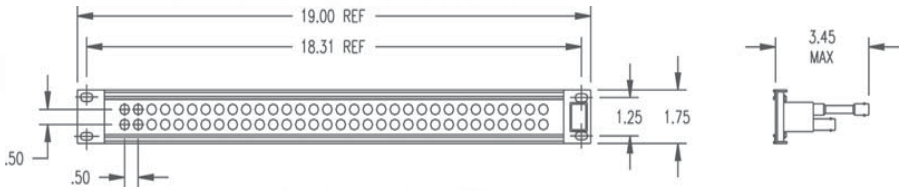
7795 Series Video Jackfields



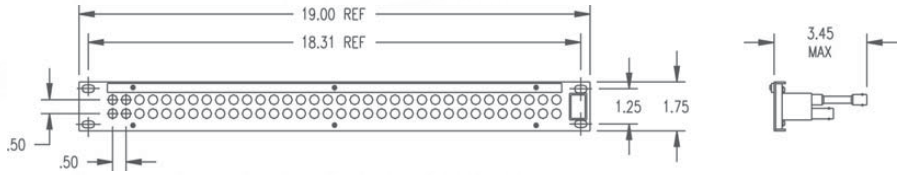
P/N 7795-1 *1 RU high Video Jackfield includes 24 Video jacks P/N 7790-2, terminated*



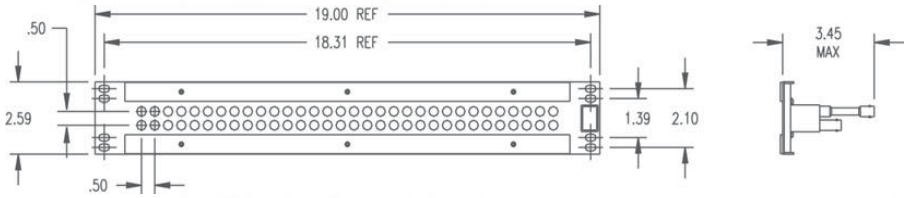
P/N 7795-11 *1 RU high Video Jackfield includes 30 Video Jacks P/N 7790-2, terminated*



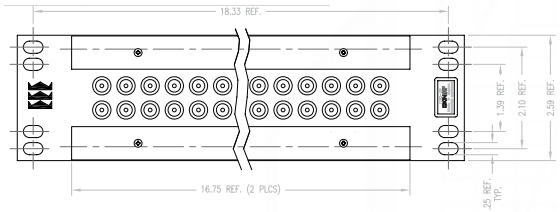
P/N 7795-12 *1 RU high Video Jackfield includes 32 Video Jacks P/N 7790-2, terminated*



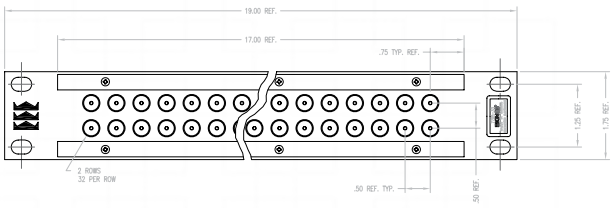
P/N 7795-13 *1 RU high Video Jackfield includes 34 Video Jacks P/N7790-2, terminated*



P/N 7795-14 *1.5 RU high Video Jackfield includes 32 Video Jacks P/N 7790-2, terminated*



P/N 7795-29



P/N 7795-33

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Phone: (203) 741-5400 • Fax: (203) 741-5500

Winchester Electronics Presents...

8600 Series Miniature Audio-Video Interconnect System

Product Benefits

- Exceeds SMPTE 292M
- Terminate to dominant broadcast cable
- Permits higher circuit density (up to 56 circuits per 19” panel)
- Positive locking equipment prevents accidental unmating
- Enables in-house serviceability

Specifications

Material (Jacks)

Spring Members & Contacts	Beryllium Copper
Insulators	Polyphenylene Oxide
Connector Bodies	Zinc

Electrical

Configuration	Dual Self Normal, Terminated
Nominal Impedance	75 Ohms
Frequency Range	DC to 1.5 GHz, -20 dB max
Return Loss	1.5 to 2.4 GHz, -19 dB max

Mechanical

Life	30,000 Cycles
Withdrawal Force	2.0 lbs. Minimum

Finishes

Jack Body	Nickel
Plug Body	Nickel
Spring Members & Contacts (Jacks and Plugs)	Gold
Crimp Sleeves (Plugs)	Nickel

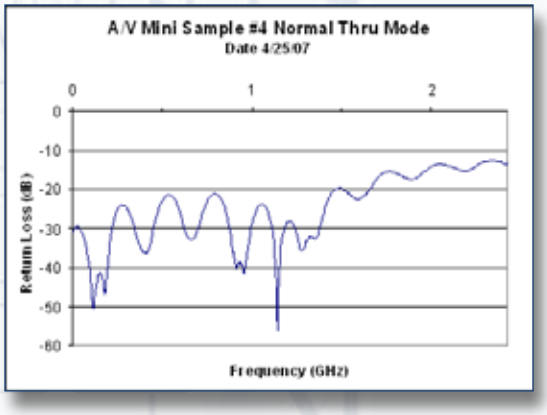
Equipment Plugs

Plug Bodies	Brass
Plug Contacts	Brass
Crimp Sleeves	Bronze
O-Ring	Silicone Rubber
Insulators	Teflon®

Patch Plugs

Plug Bodies	Brass
Plug Contacts	Brass
Crimp Sleeves	Bronze
Insulators	Teflon®

Return Loss



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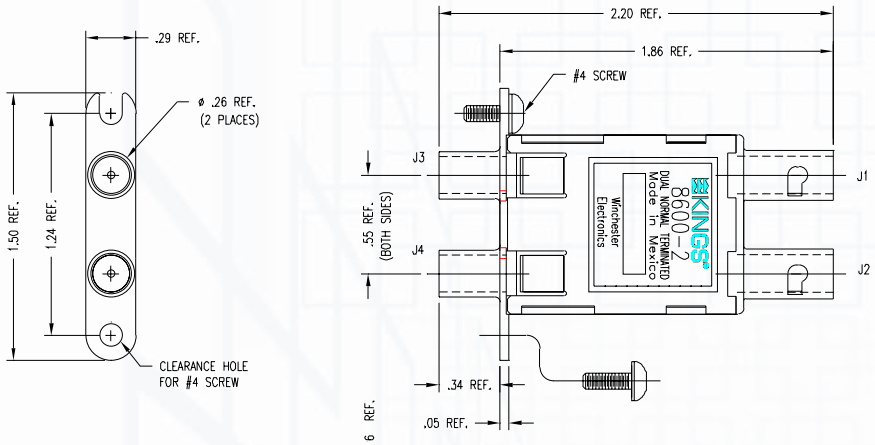
Dimension Drawing - Audio-Video Jack

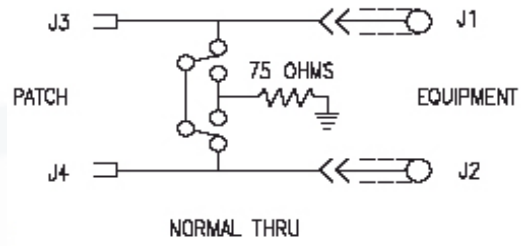


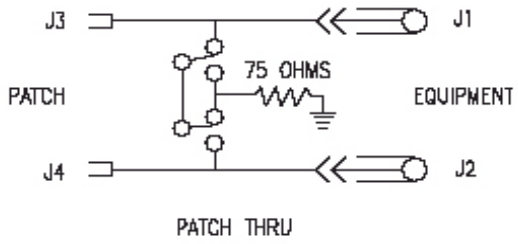
P/N 8600-2 *75 Ohm Miniature Audio-Video Jack*

Schematics

Dual Self Normal Terminated
(75 Ohms ± 1%, 1/2w)

P/N 8600-2





Miniature Audio-Video Jackfield

P/N 8602-015-056
Miniature Audio-Video Jackfield includes 56 Audio-Video Jacks P/N 8600-2, Terminated

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Winchester Electronics Presents...

2065 Series BNC Connectors

Product Benefits

- Full crimp design
- Designed for analog & digital cables
- Field installable
- Meets or exceeds HDTV standards

Specifications

Electrical

Characteristic Impedance	75 Ohms
Voltage Rating	500 Volts RMS
Return Loss	Less than -36 dB to 1 GHz; -25 dB to 2 GHz; -23 dB to 3 GHz; -20 dB to 5 GHz
Contact Resistance	Center Contact .0014 Ohms Outer Contact .002 Ohms
Insulation Resistance	5000 megohms

Mechanical

Durability	500 Cycles Min. Center Contact
Center Contact Retention	6 lbs. Minimum
Coupling Mechanism	100 lbs. Minimum
Force to Engage/Disengage	Torque 2.5 in-lbs. Max.; Longitudinal force 3.0 lbs. Max.
Interface Dimension	MIL-C-39012 except 75 Ohms

Environmental

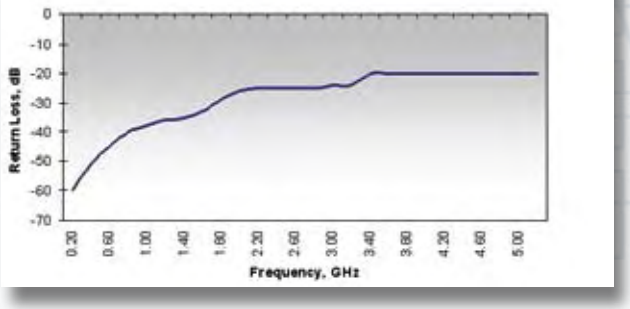
Thermal Shock	-65°C to +165°C
Moisture Resistance	0 to 95%: MIL-STD-202 Method 106
Corrosion (Salt Spray)	MIL-STD-202 Method 101 Test Condition B
Flammability	UL 94-VO Rated (Center Conductor Insulator)
Vibration	MIL-STD-202 Method 204 Test Condition B
Solvent Resistance	MIL-STD-202 Method 215

Finishes

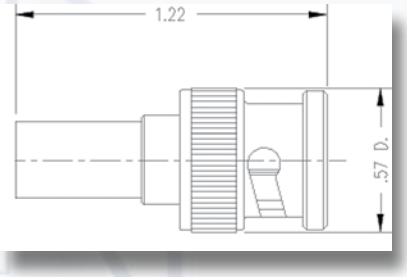
Body/Bayonet	Nickel
Center Conductor	50 millionths inch gold plating over copper plate

Typical

Return Loss



Outline Drawing (Plug)



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June 2009

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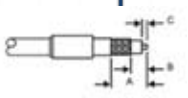
Plugs

KINGS Part No. (75 Ohm)	FOR CABLES*				CABLING			Bulk Packs Available?
	Belden	West Penn/ CDT	Gepco	Others	Crimp Die (KTH-1000)	Crimp Die (KTH-5000)	Trim Code	
2065-1-9	9209A				KTH-2261	KTH-5003	3-661-1	
2065-2-9	1505A 1506A 9259	819 25819 815	VPM2000 VPM2000TS VE61859M		KTH-2261	KTH-5003	3-661-1	YES
2065-15-9	8281	P806	VP618PE VP6000 VP618TK	WE 724	KTH-2119	KTH-5002	3-661-4	
2065-7-9	8241		VJ59U	RG-59 RG-210	KTH-2261	KTH-5003	3-661-1	YES
2065-8-9	7731A 8213		VHD1100		KTH-2004	KTH-5004	3-661-3	
2065-10-9	1694A 1695A	6350 256350 WP6355	VSD2001 VSD2001TS		KTH-2325	KTH-5017	3-661-1	YES
2065-11-9	1855A 1865A	HD825 HD25825 WP8255 WP258255	VDM230 VDM250		KTH-2025	KTH-5003	3-661-1	YES
2065-29-9	1279R 1279P				KTH-2276	KTH-5001	3-661-1	YES
2065-28-9	1520A 179DT			RG-179 RG-187	KTH-2258	KTH-5001	3-661-1	YES

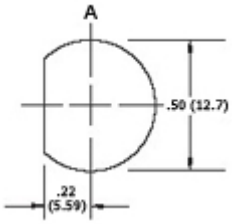


Trim Code	A	B	C
3-661-1	.624	.312	.155
3-661-3	.687	.375	.187
3-661-4	.668	.356	.200

*Consult factory for cables not listed

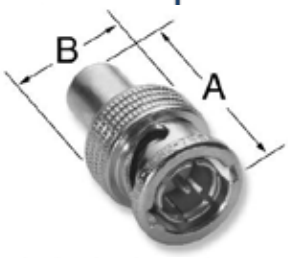
Within Series Adapters

Kings Part Number (True 75 Ohm)	Adapter Ends	Dimensions				Mounting Hole
		A		B		
		In	mm	In	mm	
2029-9-9	Bulkhead, Jack-Jack	1.28	32.5	0.69 D	17.5 D	A
2029-15-9	Jack-Jack	1.28	32.5	0.44 D	11.2 D	
2029-16-9	Jack-Plug-Jack	1.28	32.5	1.06	26.9	
2029-17-9	Bulkhead, Jack-Jack, iso. ground	1.28	32.5	0.63 D	16.0 D	A
2029-20-9	Jack-Plug, Right Angle	0.90	22.9	1.03	26.2	



Terminations

Kings Part Number (True 75 Ohm)	Dimensions				Notes
	A		B		
	In	mm	In	mm	
2555-3-32	1.00	25.4	0.57 D	14.5 D	75 ohm, 0.1%, 1/2 watt



Note:
Connectors are designed for use on both analog and digital cable. Consult your cable manufacturer for cable performance data.

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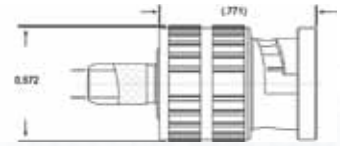
Customer Service (803) 909-5000

Winchester Electronics Presents...

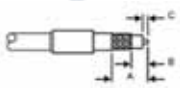
2065 Series Long Barrel BNC

Product Benefits:

- Ergonomic design - longer grip
- Designed for analog & digital cables
- Full crimp design
- Field installable
- Meets or exceeds HDTV standards
- White markings to visually confirm correct mating



	Cable Trim		
	A	B	C
1	0.748	0.394	0.138
2	0.624	0.312	0.155



KINGS® Part Number*	Cables	Crimp Tooling			Packaging**	Cable Trim
		Crimp Die (KTH-1000)	Crimp Die (KTH-5000)	Hex Size		
2065-E00-7CH02N	Belden 7731A	N/A	KTH-5007	.071/.401	Single	1
2065-E00-C7102N	Belden 1505A Gepco VPM2000	KTH-2261	KTH-5003	.041/.255	Single	2
2065-E00-C7202N	Belden 1855A Gepco VDM230	KTH-2025	KTH-5003	.041/.178	Single	2
2065-E00-C7701N	Belden 179DT/1855ENH	KTH-2258	KTH-5001	.041/.128/.188	Single	2
2065-E00-C9004N	Belden 1694A Gepco VSD2001	KTH-2325	KTH-5017	.046/.278	Single	2

**Consult factory for Part Number with optional white marking to aid users in confirming a connector is fully mated.*
***For Bulk Pack, add "U" to end of part number. Consult factory for availability.*

KINGS® by WINCHESTER ELECTRONICS

Mechanical

Durability:	500 cycles Min. Center Contact
Center Contact Retention:	6 lbs. Min
Coupling Mechanism:	100 lbs. Min
Interface Dimension:	MIL-C-39012
Force to Engage/Disengage:	Torque 2.5 in-lbs. Max.;Longitudinal force 3.0 lbs. Max

Electrical

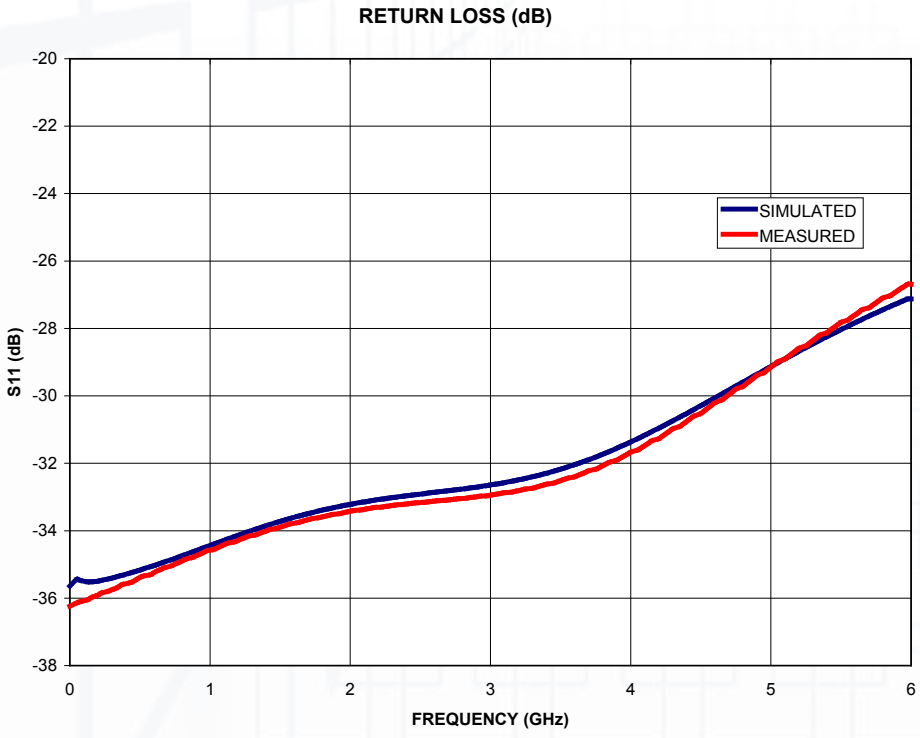
Impedance:	75 Ohm
Frequency Range:	DC to 6 GHz
Voltage Rating:	500 Volts RMS
Return Loss:	1.5 GHz < -31 dB 3 GHz < -24 dB 6 GHz < -20 dB
Contact Resistance:	Center .0014 Ohms Outer .002 Ohms
Insulation Resistance:	5000 megohms

Environmental

Thermal Shock:	-65°C to +165°C
Moisture Resistance:	0 to 95%: MIL-STD-202 Method 106
Corrosion (Salt Spray):	MIL-STD-202 Method 101 Test Condition B
Flammability:	UL 94-VO Rated (Center Conductor Insulator)
Vibration:	MIL-STD-202 Method 204 Test Condition B
Solvent Resistance:	MIL-STD-202 Method 215

Finishes

Body/Bayonet:	Nickel
Center Conductor:	Gold plating over copper plate



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Winchester Electronics Introduces...

3325 Series Miniature BNC

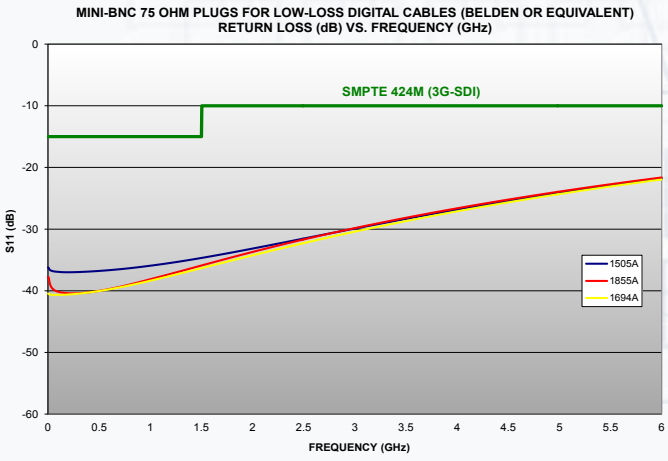
Product Benefits:

- Mini BNC plugs are 20% smaller than standard BNC plugs. Excellent choice for high density applications requiring a miniaturized quick connect / disconnect BNC coupling mechanism
- True 75 Ohm - Compliant to SMPTE 424M (3G-SDI) Specification
- Reliable Crimp / Crimp cable termination using existing KTH-1000 and KTH-5000 Die Sets
- Durable screw machined bodies and components built to withstand rough handling in Telco and Broadcast applications

Plug Specifications

Electrical

Impedance	75 Ohms
Frequency Range	DC to 6.0 GHz
Voltage Rating	500 Volts RMS
Return Loss (Mated Pair)	Up to 1.5 GHz, < -20 dB Up to 3.0 GHz, < -15 dB Up to 6.0 GHz, < -10 dB
Contact Resistance	Center Contact .0014 Ohms Outer Contact .002 Ohms
Insulation Resistance	5000 megohms



Environmental

Thermal Shock	-65°C to +165°C
Moisture Resistance	0 to 95%: MIL-STD-202 Method 106
Corrosion (Salt Spray)	MIL-STD-202 Method 101 Test Condition B
Flammability	UL 94-VO Rated (Center Conductor Insulator)
Vibration	MIL-STD-202 Method 204 Test Condition B
Solvent Resistance	MIL-STD-202 Method 215

Mechanical

Durability	500 Cycles Minimum
Center Contact Retention	6 lbs. Minimum
Coupling Mechanism	100 lbs. Minimum
Force to Engage/Disengage	Torque 2.5 in-lbs. Maximum; Longitudinal force 3.0 lbs. Max.

Finishes

Coupling Nut/Body	.000100 Minimum Nickel
Contact	.000030 Min. Gold over Nickel
Crimp Sleeve	.000050 Minimum Nickel

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Plugs

KINGS® Part Number	Cables	Crimp Tooling			Packaging
		Crimp Die (KTH-1000)	Crimp Die (KTH-5000)	Hex Size	
3325-E00-07701N	735A	KTH-2185		.041/.178	Single
3325-E00-C9001N	Belden 1694A Gepco VSD2001	KTH-2325	KTH-5017	.046/.278	Single
3325-E00-C7101N	Belden 1505A Gepco VPM2000	KTH-2261	KTH-5003	.041/.255	Single
3325-E00-C7201N	Belden 1855A Gepco VDM230	KTH-2025	KTH-5003	.041/.178	Single
3325-E00-C7701N	Belden 179DT	KTH-2258		.041/.188/.128	Single
3325-E00-V3601N	Belden 1855ENH	KTH-2025		.041/.178	Single

Extraction Tool Available - Part #KTH-2345

Future Offerings In Development

Printed Circuit Board (PCB) Jacks

Figure 1

Figure 2

Figure 3

Figure 4

KINGS® Part Number	Description	Figure
3327-099-00401G	Edgemount Bulkhead Jack	1
3327-099-00402G	Vertical PCB Jack, 3 Ground Pin	2
332B-060-00401G	Right-angle PCB Jack	3
332B-099-00401N	Right-angle, Stacking 2-Pos. PCB Jack	4

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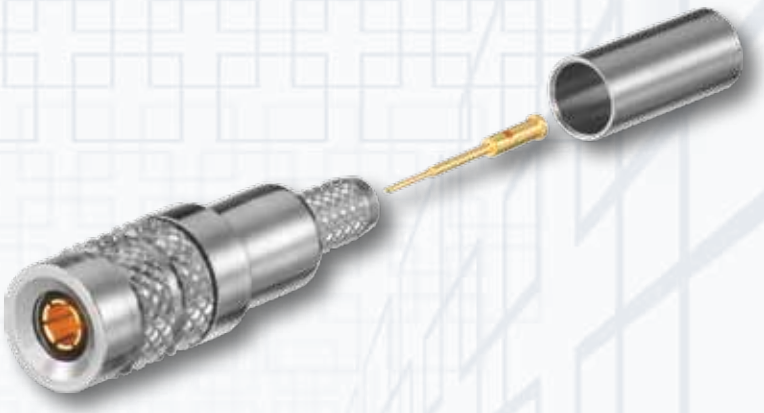
Winchester Electronics Presents...

DIN 1.0/2.3 RF Connector



Product Benefits:

- Quick connect Push/Pull system.
- Locking mechanism that will not vibrate loose as threaded connectors are prone to do.
- When mated, the connectors can rotate 360°.
- Allows for connectors to be 2-3 times more densely packed than BNC's.
- Operation up to 10 GHz.
- Supports 3Gbps HD SDI applications.
- Uses existing tooling.
- Crimp center contact.

KINGS® by WINCHESTER ELECTRONICS

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Mechanical		Electrical	
Mating:	Push/Pull, Slide-on	Impedance:	75 Ohm
Durability:	500 cycles	Frequency Range:	DC to 10 GHz
		Return Loss:	1 GHz < -32 dB 3 GHz < -23 dB 6 GHz < -15 dB

Winchester Electronics is pleased to introduce the release of our new KINGS® brand DIN 1.0/2.3 RF coaxial connectors. This addition to our connector offering, with the KINGS® brand reputation for high quality and high reliability, will provide an exceptional product that features a quick connect Push/Pull coupling system for easy mating.

These high performance connectors are available in 50 Ohm and 75 Ohm versions capable of operating up to 10 GHz and a mating life of 500 cycles. The compact design allows for dense packaging, ideally suited for applications where space is limited. This series complies with CCCE 22230, DIN 41626, and DIN 47297 specifications.

*Introducing the DIN 1.0/2.3 **Extraction Tool***

KINGS® Part Number*	Cable	Crimp Tool	Crimp Die
0345-E00-28C01N	Tachii TCX-2.8CHD or equiv.	KTH - 5000	KTH - 5009
0345-E00-C7201N (Point & Shoot Contact)	Belden 1855A, Gepco VDM230, or equiv.	KTH - 1000	KTH - 2025
0345-E00-C7202N	Belden 1855A, Gepco VDM230, or equiv.	KTH - 1000	KTH - 2025
0345-E00-V3601N	Belden 1855ENH, Image 360, or equiv.	KTH - 1000	KTH - 2113
0345-E00-C7101N	Belden 1505A, or equiv.	KTH - 1000	KTH - 2261
0345-E00-C9001N	Belden 1694A, Gepco VSD2001, or equiv.	KTH - 1000	KTH - 2325
034B-060-00401H (Right Angle PC)	N/A	N/A	N/A
0347-060-00401H (Straight PC)	N/A	N/A	N/A

Please call for 50 Ohm part numbers as well as additional 75 Ohm part numbers.

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Winchester Electronics Introduces...

Miniature DIN Video Patching System

Product Benefits:

- High Density - Ability to mount 48 Dual Port Video Jacks (96 ports) in 1.5RU Jackfield. Represents 50% increase in port count versus Mid-size jackfields (32 Dual Video Jacks or 64 ports).
- Equipment side features proven and trusted DIN 1.0/2.3 jack Interface and mates with standard DIN 1.0/2.3 Plug Connectors.
- Jacks feature sturdy metal cases and screw-in panel mounting to ensure a firm, reliable installation - even in vibration applications such as mobile trucks.
- Meets SMPTE 424M (3G-SDI) and HDTV standards - suitable for Analog, Serial Digital, and HDTV

Specifications

Electrical

Impedance	75 Ohms	
Frequency Range	Dual Jacks:	DC to 4.5 GHz
	Single Jacks:	DC to 4.5 GHz
Return Loss	Dual Jacks:	-15 dB up to 3.0 GHz
		-10 dB up to 4.5 GHz
	Single Jacks:	-15 dB up to 3.0 GHz
		-10 dB up to 4.5 GHz

Environmental

Thermal Shock:	-40° C to 65° C Operating
	-55° C to 85° C Non Operating
Moisture Resistance:	0% to 95%
	MIL-STD-202 Method 106
Corrosion (Salt Spray):	MIL-STD-202 Method 101
	Test Condition B
Flammability:	UL 94-VO rated
Vibration:	MIL-STD-202 Method 201
Solvent Resistance:	MIL-STD-202 Method 215

Mechanical

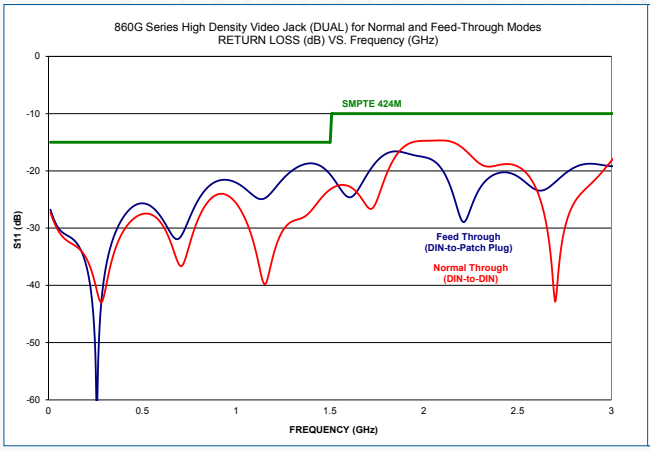
Durability	10,000+ Cycles on Front Port
Withdrawal Force	2.0 lbs. Minimum

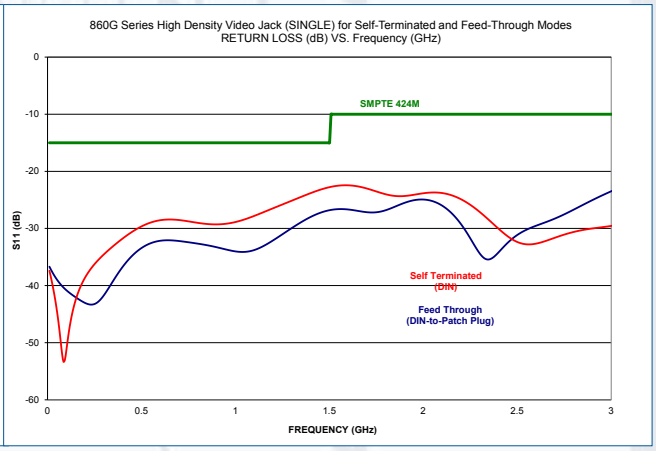
Material

Body:	Brass or Zinc Alloy
Contacts:	Beryllium Copper
Springs:	Beryllium Copper
Insulators:	Teflon®
Dielectrics:	Topas®

Finishes

Body:	.000100 Minimum Nickel
Center Contacts:	.000050 Minimum Gold over Nickel





KINGSHD™

April 2011
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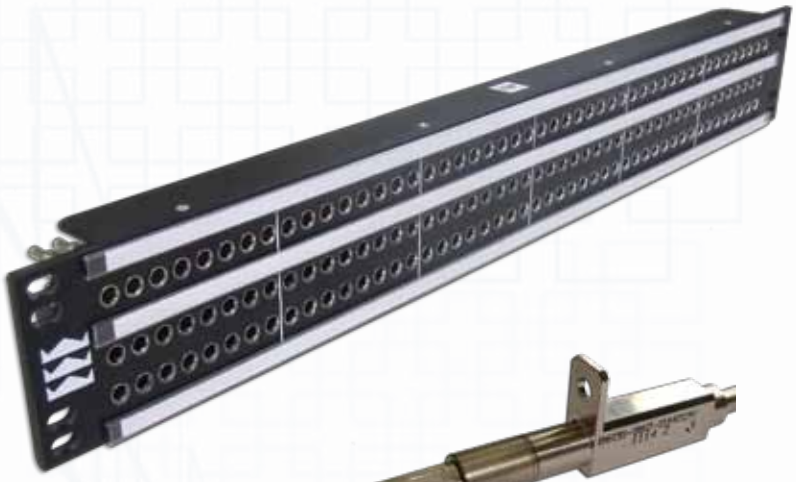
Miniature DIN Video Jacks & Jackfields

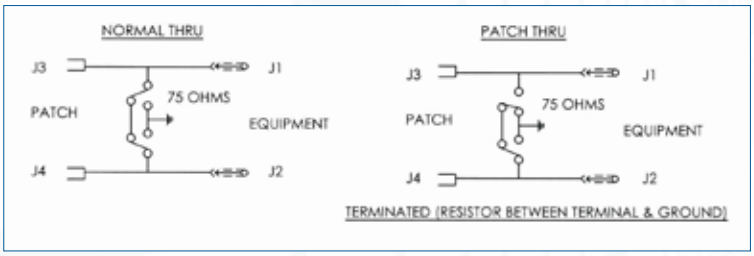
8600-000-00701N - 1.5RU, 2x48
Dual, Normal, Terminated

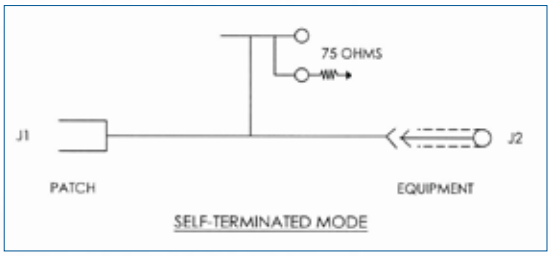
8600-000-00702N - 1.5RU, 3x48
Dual/Normal, Single, Terminated



860G-860-03401N
Dual, Normal, Terminated

860G-860-03402N
Single, Terminated





Miniature Patch Cords

860L-860-XXX01-YY
Length in Inches — Color

Part Number	Length In.
860L-860-01201-YY	12.00
860L-860-02401-YY	24.00
860L-860-03601-YY	36.00
860L-860-04801-YY	48.00
860L-860-06001-YY	60.00
860L-860-07201-YY	72.00
860L-860-09601-YY	96.00
860L-860-12001-YY	120.00
860L-860-14401-YY	144.00
860L-860-28801-YY	288.00

YY	COLOR
-01	BROWN
-02	RED
-03	ORANGE
-04	YELLOW
-05	GREEN
-06	BLUE
-07	VIOLET
-08	GREY
-09	WHITE
-10	BLACK

Product Benefits:

- Patch Cords available in 10 popular colors for visual signal identification and are made with high quality Belden 1855A or Gepco VDM230 cable
- Color matching molded boots provide superior strain relief, protection, and a high quality professional appearance
- Patch Cords available in standard or custom lengths providing designers with maximum flexibility
- True 75 Ohm Patch Plug features reliable Crimp/Crimp termination to ensure long lasting system performance

Connecting Innovation to Application®

WINCHESTER ELECTRONICS

62 Barnes Industrial Road North
Wallingford, CT 06492
Phone: (203) 741-5400 • Fax: (203) 741-5500

Winchester Electronics Presents...

3345 Series RCA Connectors

75 Ohm

Product Benefits

- 75 Ohm impedance
- Field installable
- Full crimp design
- Designed for Analog & Digital cables

Specifications

Electrical

Impedance	75 Ohms
Voltage Rating	500 Volts RMS
Return Loss	Less than -20 dB to 300 MHz
Insulation Resistance	5000 megohms

Mechanical

Center Contact Retention	6 lbs. Minimum

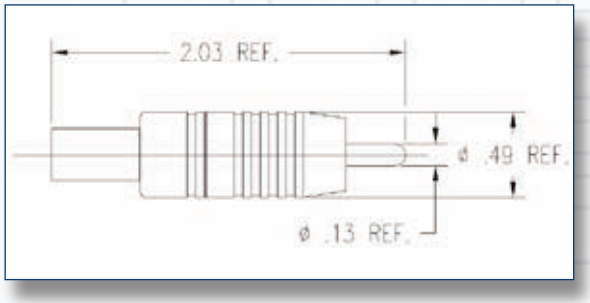
Finishes

Body	Nickel
Center Conductor	50 millionths inch gold plating over nickel over copper plate

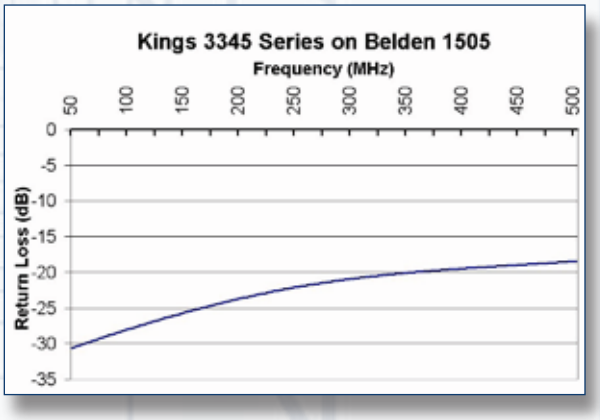
Environmental

Thermal Shock	-65°C to +165°C
Moisture Resistance	0 to 95% MIL-STD-202, Method 106
Corrosion (salt spray)	MIL-STD-202, Method 101 Test Condition B
Flammability	UL 94-VO Rated (Center Conductor Insulator)
Vibration	MIL-STD-202, Method 204 Test Condition B
Solvent Resistance	MIL-STD-202, Method 215

Outline Drawing (Plug)



Return Loss



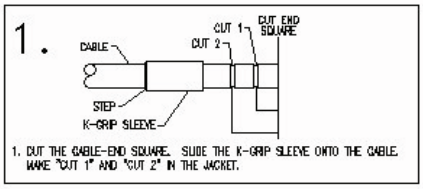
KINGS® by WINCHESTER ELECTRONICS

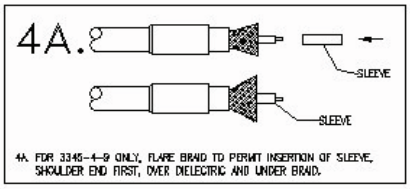
June 2009
www.winchesterelectronics.com

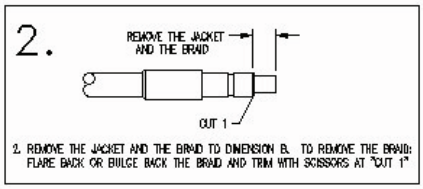
RCA Connectors - 75 Ohm

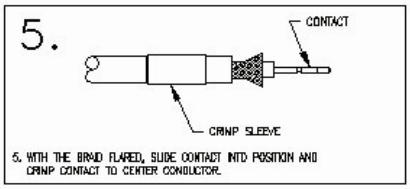
KINGS Part No. (75 Ohm)	FOR CABLES*				CABLING		
	Belden	West Penn/ CDT	Gepco	Others	Crimp Die (KTH-1000)	Crimp Die (KTH-5000)	Trim Code
3345-1-9	1505A 1506A 9259	819 25819 815	VPM2000 VPM2000TS VE61859M		KTH-2261	KTH-5003	3-661-1
3345-2-9	1694A 1695A	6350 256350 WP6355	VSD2000 VSD2001TS		KTH-2255	KTH-5003	3-661-1
3345-3-9	1855A 1865A	HD825 HD25825 WP8255 WP258255	VDM230 VDM250		KTH-2025	KTH-5003	3-661-1
3345-4-9	1279R 1279P				KTH-2276	KTH-5001	3-661-1

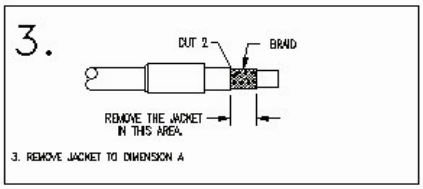
**Consult factory for cables not listed*

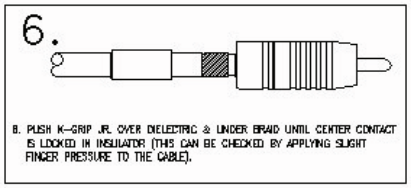


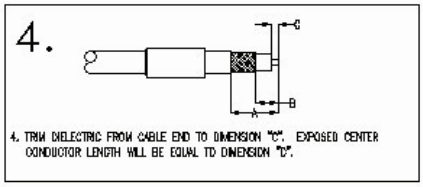


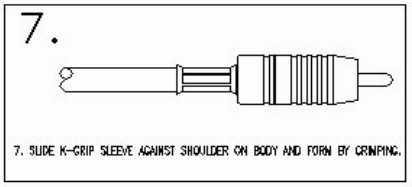












Trim Code	A	B	C
3-661-1	.624	.312	.155

Dimensions in inches

Note:
Connectors are designed for use on both analog and digital cable. Consult your cable manufacturer for cable performance data.

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Customer Service (803) 909-5000

Winchester Electronics Presents...

Tri-Loc® Series Connectors

Standard Jacks and Plugs

Product Benefits

- Durable weatherproof construction
- Easy, two-crimp installation
- Push-on, pull-apart mating
- 75 Ohm impedance
- Non-conductive anti-shock safety tip on contacts
- Adapters are available in a variety of configurations

Specifications

Material

Body	Brass
Center Contacts	Brass (Male) Beryllium Copper (Female)
Insulators	Teflon®
Spring Member	Beryllium Copper

Electrical

Impedance	75 Ohms
Operating Frequency	DC to 2.5 GHz

Mechanical

Life	30,000 cycles minimum
Cable Retention	140 lbs minimum, 1/2" diameter cable 100 lbs minimum, 3/8" diameter cable

Environmental

Moisture	0 to 98% MIL-STD-202, Method 106
Temperature	-20° to +70° C
Corrosion	MIL-STD-202, Method 101

Finishes

Body	Nickel
Center Contacts	Gold over Nickel
Outer Contacts	Silver

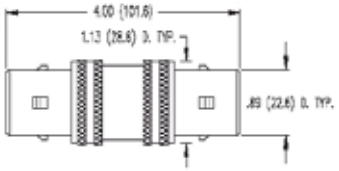
KINGS® by WINCHESTER ELECTRONICS

July 2011
www.winchesterelectronics.com

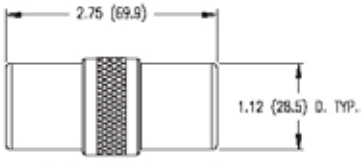
Standard Connectors - Adapters, Jacks, and Plugs

Cable Group	Belden	West Penn/ CDT	Gepco	Center Conductor O.D.	Core O.D.	Inner Braid O.D.	Inner Jacket O.D.	Outer Braid O.D.	Outer Jacket O.D.
70	8233 8233A	3811 1150	VT61811PE VT61811	#14 AWG Solid .064	.285 Foam PE	.315	.365 PE	.395	.475 PE
73	1856A 1857A 9267		LVT61859 VT61859	#20 AWG Solid .032	.146	.176	.216 PE	.250	.360 NEOP
74	9232 1858A		LVT61811	#14 AWG Stranded .064	.312 Foam PE	.342	.392 PE	.422	.520 NEOP
76	8232 8232A	3815		#20 AWG Solid .032	.143 ± .004 Foam PE	.176	.226 ± .005 PE	.256	.315 ± .007 PE
78	88232			#20 AWG Solid .032	.140 Foam	.168	.188	.216	.246
79	1859A	253811	VT61811TK	#14 AWG Stranded .064	.285 Foam PE	.313	.350 Solef	.378	.410 Solef
80	7784A			.055 (1.4mm) Stranded	.236 (6.0 mm) Foam PE	.284 (7.2mm)	3.44 (8.7 mm) PVC	.371 (9.4mm)	.443 (11.0 mm)

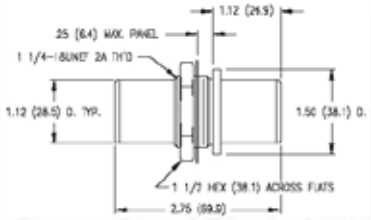
Refer to RF Catalog for entire list of part numbers



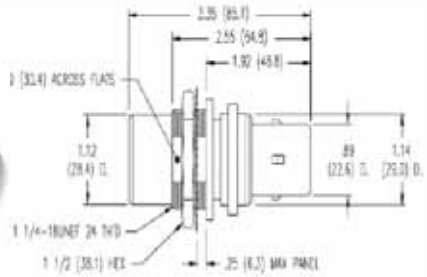
Adapter, Plug-Plug



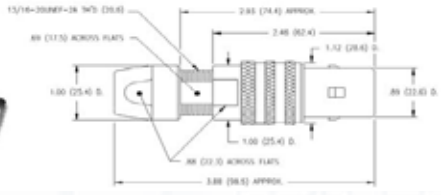
Adapter, Jack-Jack



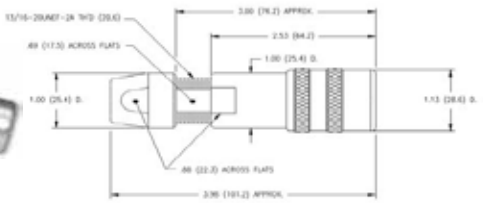
Adapter, Jack-Jack
Bulkhead Mount



Adapter, Jack-Plug
Bulkhead Mount



Standard Plugs



Standard Jacks

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62 Barnes Industrial Road North
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Phone: (203) 741-5400 • Fax: (203) 741-5500

Winchester Electronics Presents...

International Tri-Loc®

Jacks and Plugs

Product Benefits

- Rugged weatherproof construction
- Meets or exceeds SMPTE 292 requirements
- Mates with Fischer 1051 Series triaxial connectors
- Suitable for Analog, Serial Digital, and HDTV
- Push-on coupling with audible “snap” to ensure proper mating
- Jacks and plugs available for 8mm, 11mm, and 14mm cables
- Retro-fit kits available for field replacement without re-termination of entire connector

Specifications

Material

Body	Brass
Entry Body	Beryllium Copper
Insulators	Teflon®
Spring Member	Beryllium Copper
Crimp Sleeves	Commercial Bronze

Electrical

Impedance	75 Ohms
Operating Frequency	DC to 2.5 GHz

Mechanical

Life	30,000 cycles minimum
Cable Retention	140 lbs minimum, 1/2” diameter cable 100 lbs minimum, 3/8” diameter cable

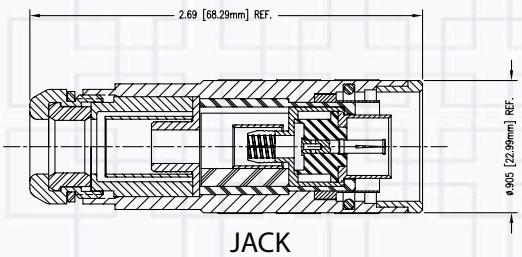
Environmental

Moisture	0 to 98% MIL-STD-202, Method 106
Temperature	-20° to +70° C
Corrosion	MIL-STD-202, Method 101

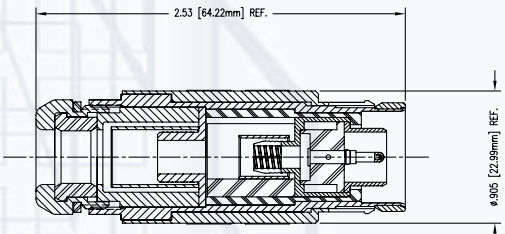
Finishes

Body	Nickel
Center Contacts	Gold

Note: Connectors are designed for use on both analog and digital cables. Consult your cable manufacturer for cable performance data.



JACK



PLUG

KINGS® by WINCHESTER ELECTRONICS

July 2011
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Part Number	Cable Group	Belden	GEPCO	Description
780270	70	8233	VT61811, VT61811PE	Bulkhead Jack
780370	70	8233	VT61811, VT61811PE	Jack
780570	70	8233	VT61811, VT61811PE	Bulkhead Plug
780670	70	8233	VT61811, VT61811PE	Plug
783870	70	8233	VT61811, VT61811PE	Retrofit Kit (F)
785870	70	8233	VT61811, VT61811PE	Retrofit Kit (M)
780273	73	1856A, 1857A, 9267	VT61859, LVT61859	Bulkhead Jack
780373	73	1856A, 1857A, 9267	VT61859, LVT61859	Jack
780573	73	1856A, 1857A, 9267	VT61859, LVT61859	Bulkhead Plug
780673	73	1856A, 1857A, 9267	VT61859, LVT61859	Plug
781273	73	1856A, 1857A, 9267	VT61859, LVT61859	Bulkhead Plug Receptacle
783873	73	1856A, 1857A, 9267	VT61859, LVT61859	Retrofit Kit (F)
785873	73	1856A, 1857A, 9267	VT61859, LVT61859	Retrofit Kit (M)
780274	74	9232	LVT61811	Bulkhead Jack
780374	74	9232	LVT61811	Jack
780574	74	9232	LVT61811	Bulkhead Plug
780674	74	9232	LVT61811	Plug
783874	74	9232	LVT61811	Retrofit Kit (F)
785874	74	9232	LVT61811	Retrofit Kit (M)
780276	76	8232, 8232A		Bulkhead Jack
780376	76	8232, 8232A		Jack
780576	76	8232, 8232A		Bulkhead Plug
780676	76	8232, 8232A		Plug
783876	76	8232, 8232A		Retrofit Kit (F)
785876	76	8232, 8232A		Retrofit Kit (M)
780280	80	7784A, 7784AS		Bulkhead Jack
780380	80	7784A, 7784AS		Jack
780580	80	7784A, 7784AS		Bulkhead Plug
780680	80	7784A, 7784AS		Plug
781280	80	7784A, 7784AS		Bulkhead Plug Receptacle
783880	80	7784A, 7784AS		Retrofit Kit (F)
785880	80	7784A, 7784AS		Retrofit Kit (M)
780290	90	7783		Bulkhead Jack
780390	90	7783		Jack
780590	90	7783		Bulkhead Plug
780690	90	7783		Plug
781290	90	7783		Bulkhead Plug Receptacle
783890	90	7783		Retrofit Kit (F)
785890	90	7783		Retrofit Kit (M)

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Winchester Electronics Presents...

Crimp Tools

Machine Crimp Tool

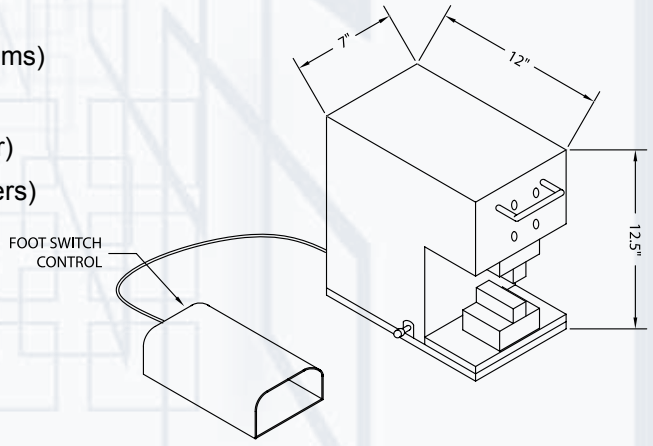
Pneumatic Crimping Machine
KTM-5000

Product Benefits

- Portable, bench-mounted with no permanent airline attached.
- Designed for use with KINGS® KTH-1000 and KTH-2000 die sets.
- Ideal for long or short production runs.
- Convenient foot control frees operator hands for crimping.
- Quick and easy changing from one die to another.
- Pneumatic interlock feature guarantees constant crimping.
- Designed with OSHA safety requirements in mind.
- Low maintenance.

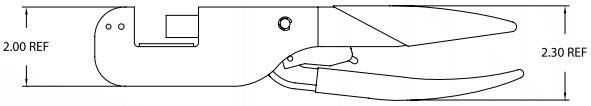
Specifications

Dimensions (LxWxH)	12” x 7.0” x 12.5” (305 x 178 x 318 mm)
Weight	38 pounds (17.3 kilograms)
Air Pressure	90 psi (6 bar)
Required Air Supply	85-110 psi (5.6 - 7.3 bar)
Air Consumption	0.085 cubic feet (2.4 liters)
Maximum Stroke	0.78” (20 mm)
Safety Shield	Yes
Cycle Speed	54 cycles per minute
Crimp Action	Straight
Maximum Recommended Termination Size	88 mm O.D.



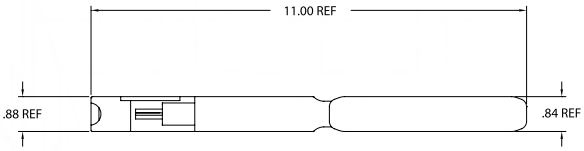
KINGS® by WINCHESTER ELECTRONICS

KTH-1000 Hand Crimp Tool

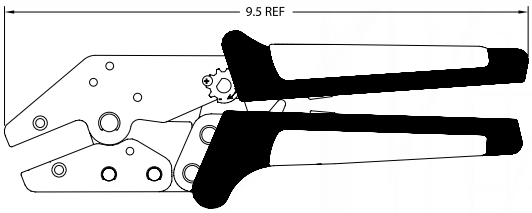


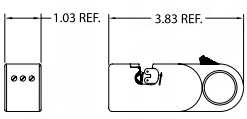
KTH-1000

- Interchangeable Dies, utilize KTH-2000 Series die sets.
- Die Sets not included but are purchased separately.
- Ratchet type tool.
- Does not release until crimp is complete.
- Frame made of heavy duty lightweight aluminum.
- Ratchet release feature tool type.



KTH-5000 Hand Crimp Tool with KTS-8 Stripper





KTH-5000

- KTH-5000 Crimp Handle uses the KTH-5000 Series die sets.
- Economical and user-friendly alternative to other industrial crimping tools.
- Lightweight, ergonomic tool allows for one-handed operation.
- Ultra-smooth ratchet design with rubber grip handles.
- Available dies developed specifically for precise crimping of KINGS® connectors.

KTS-8 Stripper

- Hand-held tool is lightweight and compact–ideal for field use.
- Blade cassettes and memory blocks interchange quickly and easily.
- Cam adjustment ensures precise hold on cable without distorting the jacket.

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