

HIGH FREQUENCY VIDEO PATCHING

The J314MW is a low profile jack designed for HDTV digital applications where space allocation is critical (see Application Notes). Smaller and with a lower profile than the standard WECOs jacks, the J314MW allows for 128 ports in the same rack space as 48 standard jacks, a density improvement of 30% more patching. This miniature high frequency dual coaxial "normal-thru" digital patch jack establishes a benchmark for superior mechanical design, wideband performance, dependability and reliability at a highly competitive price.

Designed with a short signal path to better control matched impedance, the robust 75 ohm design offers extended band width of 1MHz to 3GHz with return loss performance of 23dB @ 2.2GHz (the highest frequency required for uncompressed 1080i). This performance is fully 8dB better than the SMPTE292M requirement. The J314MW achieves full uncompressed signal processing capability through 3GHz at performance levels of -20dB in the normal-through condition and -15dB in the patch through mode.

The Trompeter jack is designed lighter and uses fewer moving parts than other designs. The J314MW weighs 36 grams compared to similar competitive products weighing 81 grams on average - a weight savings of 56%! The design provides self-wiping action upon plug insertion, a proven approach for circular plug applications, eliminating the need for heavy and complex dust control plungers and multiple actuators common to other designs.

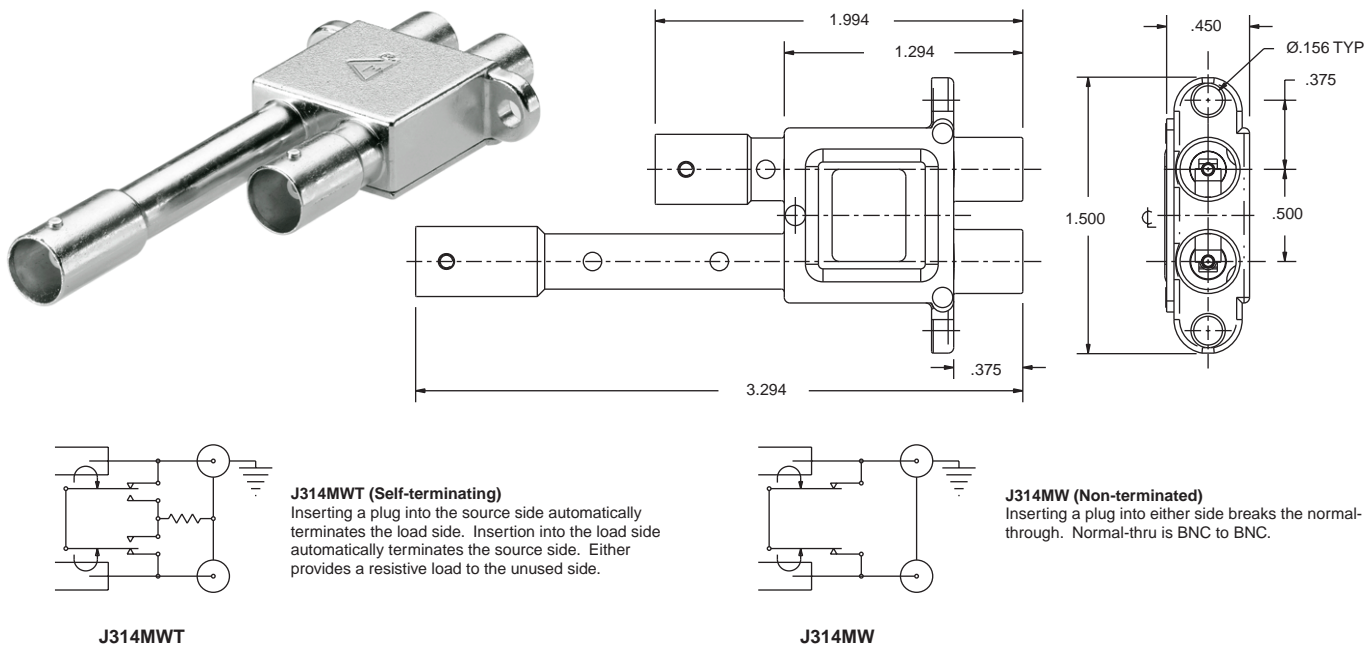
Precision construction, use of the finest materials, true impedance matched components and outstanding RF performance combined with Trompeter's tradition of superior reliability makes this product a benchmark for outstanding value.

Application Notes:

This mini-WECO patch jack is ideal for mobile video news vans, high density in-station patching, remote site trucks, uplink/down-link stations, and cable headends when higher frequency, high density applications for HDTV video signals are or will be used. Trompeter's new J314MW high frequency miniature dual coaxial "normal-thru" digital patch jack establishes a benchmark for superior mechanical design, wideband performance, dependability and reliability.

Offering a short signal path to better control matched impedance, its robust 75 ohm design also offers extended bandwidth of 1MHz to 3GHz with return loss performance @2.25GHz (the highest frequency required for uncompressed 1080i) that is fully 8dB better than the SMPTE292M requirement.

Smaller and with a lower profile than the standard WECO jacks, the J314MW allows for as many as 32 jacks in a one rack unit high panel.

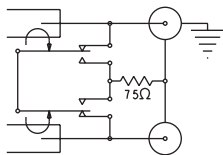
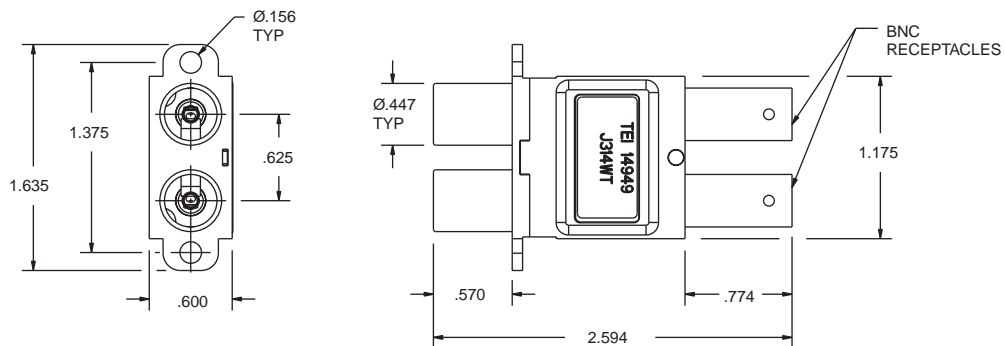


HDTV-READY HIGH FREQUENCY 75 OHM DUAL COAXIAL NORMAL-THRU MINI-WECO PATCH JACK

Un-Terminated
Terminated

J314MW
J314MWT

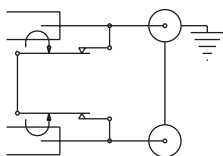
HIGH FREQUENCY VIDEO PATCHING



J314WT

J314WT (Self-terminating)

Inserting a plug into the source side automatically terminates the load side. Insertion into the load side automatically terminates the source side. Either provides a resistive load to the unused side.



J314W

J314W (Non-terminated)

Inserting a plug into either side breaks the normal-thru. Normal-thru is BNC to BNC.



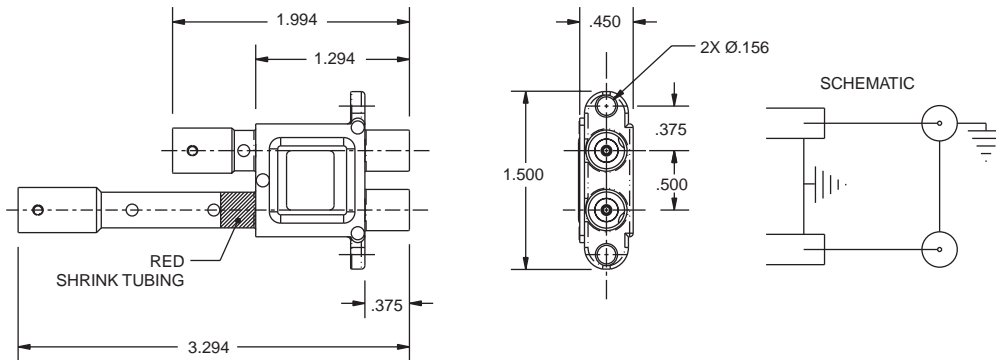
HDTV-READY HIGH FREQUENCY 75 OHM WECO PATCH JACK, NORMAL-THRU, DUAL COAXIAL

Un-Terminated **J314W**
Terminated **J314WT**

HIGH FREQUENCY VIDEO PATCHING

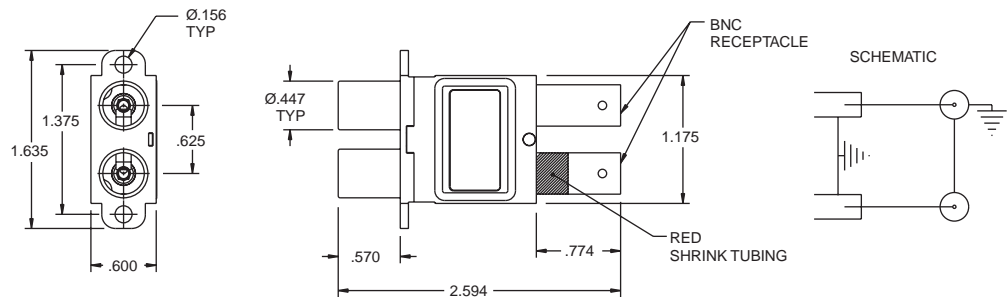
The J315MW is superior quality, high bandwidth, dual video patch jack. This low profile, high performance component is designed for HDTV digital applications where space allocation is critical, such as in video truck application. It is ideal for situations where self-normalling is not practical, usually due to environmental considerations such as high ambient airborne particles or high vibration.

When used in conjunction with the LPMWHF looping plug, a "normal-thru" circuit is achieved, which will pass the full 1.485 Gbps of uncompressed data (2.25GHz of frequency) needed for HDTV, with return loss performance which exceeds SMPTE292M requirements. This high performance is maintained when patching from one location to another, using the PCMWB-L patch cord (call factory).



HDTV READY HIGH FREQUENCY 75 OHM DUAL COAXIAL MINI-WECO PATCH JACK WITH BNC RECEPTACLES

Un-Terminated **J315MW**



HDTV READY HIGH FREQUENCY 75 OHM DUAL COAXIAL WECO PATCH JACK WITH BNC RECEPTACLES

Un-Terminated **J315W**

COAXIAL VIDEO MONITOR PROBE BNC JACK **MP20W**

Monitors J314, J214 and J14 Series without interruption of normal-thru signal.

