



AUSTRALIAN RAIL TRACK CORPORATION

INFRASTRUCTURE, STRATEGY AND PERFORMANCE

Engineering Standards and Documents

The following recommendation, together with the attached supporting documentation, has been considered at the ARTC Safety Committee Meeting held on 14th November 2005.

Documents:

Ref No:	08-08-10-011- Systems & Equipment Approval
Subject:	'Weidmüller' Wiring Terminals and Fuse Holders
Dated:	8 th November 2005.

Prepared By: Arthur Haberlin, Signalling Engineer

Endorsed by: Trevor Moore, Signalling Standards Engineer

Items Considered for Approval:

Manufacturer:	Weidmüller GmbH & Co. KG
Product:	Wiring Terminals and Fuse Holders
Item Identification:	See item list Ref No: 08-0509-001a

The items in the form presented at the review date were approved for System & Equipment Approval to be used on all ARTC jurisdictions in accordance with the manufacturers published performance criteria and subject to the following.

Relevant ARTC Specifications:

Ref. No.	Title	Status	Date
SPS 02	Environmental Conditions	Issue1 Revision 2	May '05
SCP 20	Installation of Equipment Racks & Termination of Cables and Wiring	Issue 1 Revision 2	March '05
SC 02 01	Installation of Equipment Racks & Termination of Cables and Wiring	Issue 1 Revision 2	March '05
SCP 04	Solderless Terminals, Screw and Spring Clamp Terminal Blocks	Issue 1 Revision 3	May '05

Specific Conditions of Approval:

- i.** For use in accordance with standard typical circuits only.
- ii.** Only components from list reference **08-0509-001a** may be utilised.
- iii.** The selection of the type of terminal to be applied in each instance should be determined by the standards applicable to the circuit being terminated.
- iv.** Manufacturers current, voltage and environmental specifications shall exceed the relevant ARTC specification limits for the service and location in which the terminals are to be installed.
- v.** Wiring to be terminated shall be of a material and cross sectional area which are within the manufacturers specifications for the terminal type to be installed.
- vi.** Individual Wiring Terminals and Fuse Holder type selection shall conform to the typical circuit and construction drawings applicable to the service and location. The reasons for the selection of a particular terminal type shall be documented in the design submission.
- vii.** Replacement of existing terminals and/or extension of existing terminal bars for similar circuit types, where the existing enclosure is unaltered, may utilise the same terminal types as those previously installed.

Certificate Issued to:

Weidmuller Pty. Ltd.
43 Huntingwood Drive
Huntingwood
NSW 2148

A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 12 monthly basis that accreditation is current. ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011:2003.

Any subsequent change to the design, materials or manufacturing process is not covered by this approval.

Approved for use in the ARTC.

APPROVAL No: 08-08-10-011

John Cowie
Manager Standards & Systems



AUSTRALIAN RAIL TRACK CORPORATION LTD

Ref No: 08-0509- 001a

Date: 8th September 2005

System & Equipment Approval

Subject: ‘Weidmüller’ Wiring Terminals and Fuse Holders

The following lists the individual types (by catalogue number) of Wiring Terminals and Fuse Holders manufactured by Weidmüller GmbH & Co. KG (Klippon) which are approved for use in signalling circuits on ARTC infrastructure under System & Equipment Approval Certificate 08-08-10-011 subject only to any conditions shown on that Certificate and the Conditions of Use shown against individual types.

Catalogue No.	Mounting Rail	Terminal Type	Conditions of Use
Feed Through Terminals			
0294320000	TS15	AKZ 4	Not to be used for terminating external cable.
0279620000	TS32	SAK 2.5 KRG	Not to be used for terminating external cable.
0128320000	TS32	SAK 4 KRG	
0193220000	TS32	SAK 6N KRG	
0110020000	TS32	SAK 10 KRG	
0550620000	TS32	SAK 35N KRG	
0170320000	TS32	SAKG 28 II	
0380460000	TS35	SAK 2.5/35	Not to be used for terminating external cable.
0443660000	TS35	SAK 4/35	
0380560000	TS35	SAK 6/35	
0443760000	TS35	SAK 10/35	
0608260000	TS35	SAK 35N/35	
0637320000	TS35	SAKG 32/35 II	
03711.6 # ¶	TS35	DK 4	Not to be used for terminating external cable.
0590260000	TS35	DK 4 QV*	Not to be used for terminating external cable. (Replaces DK 4 Cat. No. 03711.6)
1608510000	TS35	ZDU 2.5	For non-vital internal circuits only.
1674300000	TS35	ZDK 2.5/1.5	For non-vital internal circuits in local control panels only.
1689990000	TS35	ZDK 2.5/1.5V	For non-vital internal circuits in local control panels only.



AUSTRALIAN RAIL TRACK CORPORATION LTD

Catalogue No.	Mounting Rail	Terminal Type	Conditions of Use
Heavy Duty Feed Through Terminals			
0340820000	TS32	SAK 70 KRG	Minimum conductor size: 16mm ² solid, 25mm ² stranded
0170420000	TS32	SAKG 32 II	
0170620000	TS32	SAKG 46 II	
Test / Disconnect Terminals			
0324020000	TS32	SAKC 10 STB/RE	Without test sockets. Non-preferred configuration.
0324120000	TS32	SAKC 10 2STB	With 2 test sockets. Preferred configuration.
0437920000	TS32	SAKT 1/LT STB/14/4	Limited application. Vital circuits require case by case design approval.
1608680000	TS35	ZTR 2.5	For non-vital internal circuits only.
1608710000	TS35	ZTR 2.5/D+	For non-vital internal circuits only, Forward Diode circuit.
1608720000	TS35	ZTR 2.5/D-	For non-vital internal circuits only, Reverse Diode circuit.
Fuse Holders			
0191120000	TS32	SAKS 1/G25	
0211120000	TS32	SAKS 3	With RED fuse cap.
0248920000	TS32	SAKS 3 GZ/6.3X32	Max. 10 amp.
0359420000	TS32	SAKS 5 380AC	
0501520000	TS35	SAKS 1/35 /G25	
0667420000	TS35	SAKS 3	With RED fuse cap.
0667520000	TS35	SAKS 3/35 GZ/6.3X32	Max. 10 amp.
0502120000	TS35	SAKS 5/35	
Earthing Terminals			
0322900000¶	TS32	EK 1	
0323100000	TS32	EK 2	
0144400000	TS32	SAKE 35	

- Old catalogue number.

¶ - Available on extended lead time.