



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:	08-08-10-019- Systems & Equipment Approval
Subject:	'Critchley' Wiring Conductor and Cable Markers
Dated:	9 th November 2005.

Prepared By: Arthur Haberlin, Signalling Engineer

Endorsed by: Trevor Moore, Signalling Standards Engineer

Items Considered for Approval:

Manufacturer:	Tyco Electronics Pty Ltd.
Product:	Wiring Conductor and Cable Markers
Item Identification:	See item list Ref: 08-0511-012a

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

Specific Conditions of Approval:

No conditions of approval.

Certificate Issued to:

Tyco Electronics Pty Ltd
111 Vanessa Street
Kingsgrove
NSW 2208

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: 08-08-10-019

John Cowie
Manager Standards & Systems



AUSTRALIAN RAIL TRACK CORPORATION LTD

Ref No: 08-0511-012a

Date: 8th November 2005

System & Equipment Approval

Subject: ‘Critchley’ Wiring Conductor and Cable Markers

The following lists the individual types (by catalogue number) of Conductor and Cable Markers manufactured by Critchley Electrical Products Pty. Ltd. which are approved for use in signalling circuits on ARTC infrastructure under System & Equipment Approval Certificate **08-08-10-019** subject only to any conditions shown on that Certificate and the Conditions of Use shown against individual types.

Catalogue No.	Conductor / Cable Diameters (mm)		Conditions of Use
Z-Type Markers			Closed slip-on characters.
ZS09	2.2	3.8	
ZS13	2.7	4.6	
ZS18	3.5	6.2	
ZS23	5.0	8.5	
ZS35	7.5	12.5	
hsi System			Heat-shrink sleeves.
HS032WE50	1.8	3.0	For use on SSI plugs.
HS032YW50	1.8	3.0	
08259903	N/A	31mm long	Markers.
08259904			
0820532	1.3	2.0	Carriers.
0825032	1.8	4.0	
0825232	2.5	6.0	
0825432	5.2	8.0	
0825532	7.5	13.6	
0825632	12.0	20.0	
K-Type System			
KS65	4.2	7.0	If used without carrier strip.
1130	any	18 digit	Carrier strip for KS65; must be strapped to cable at both ends (flag type not permitted).
1131	any	12 digit	
1132	any	7 digit	
Permark System			Cable Markers.
PM09512	any		To utilise Saddle Fixing only. Only for use external to equipment housings.
PM07507	any		Only for use external to equipment housings.