



Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No. 04/00021(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	AEI CABLES LTD.
PLACE OF PRODUCTION	Durham Road Birtley, Co. Durham DH3 2RA United Kingdom (UK)
DESCRIPTION	Flame retardant / fire resistant, low smoke, zero halogen, EPR insulated, EVA sheathed, screened, armoured and un-armoured, multicore control cable
TYPE	Control cables 150/250 V
APPLICATION	Fixed wiring on marine, offshore and industrial installations
SPECIFIED STANDARDS	Conductors: Stranded tinned copper class 2 or class 5 to BS 6360 + mica glass tape for fire resistant to BS 7917 Insulation: EPR compound to BS 7655 Type GP4 Inner sheath: EVA (BS 7655 Type SW4) Screen: Aluminium/PET laminate tape
Certificate No.	04/00021(E2)
Issue Date	6 April 2014
Expiry Date	5 April 2019
Sheet	1 of 3

T. Piipponen
Marine Technology & Engineering Services, Southampton
Lloyd's Register EMEA

*Lloyd's Register EMEA
Mountbatten House, 1 Grosvenor Square. Southampton SO15 2JU*

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Lloyd's
Register

SPECIFIED STANDARDS (cont.)	Armour:	Galvanized steel wire braid
	Outer sheath:	EVA (BS 7655 Type SW4)
	Construction:	BS 6883:1999 & BS 7917: 1999
	Flame retardance:	BS 4066-1 and BS 4066-3, Category A Designation F
	Fire resistance:	IEC 60331:1970 Class F1 950° C
	Smoke emission:	BS 7622
	Corrosive and acid gas emission:	BS 6425-1
RATING		150/250 V
SIZES	As indicated on:	Tables 5, 6, 7, 8, 9, 10, 11, 12, 13 & 14 of BS 6883:1999 Tables 6, 7, 8, 9, 10, 11, 12, 13, 14 & 15 of BS 7917:1999 The 1.5 square mm sizes from BS 6883:1991
EXCEPTIONS/ CONDITIONS		Except bronze wire braided cables in the above Tables.
OPERATIONAL LIMITATIONS	Maximum conductor temperature:	90° C
Certificate No.		04/00021(E2)
Issue Date		6 April 2014
Expiry Date		5 April 2019
Sheet		2 of 3

T. Piipponen
Marine Technology & Engineering Services, Southampton
Lloyd's Register EMEA

*Lloyd's Register EMEA
Mountbatten House, 1 Grosvenor Square. Southampton SO15 2JU*

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Lloyd's
Register

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 04/00021(E2) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 04/00021(E1) to which this extension should be attached.

Certificate No.	04/00021(E2)
Issue Date	6 April 2014
Expiry Date	5 April 2019
Sheet	3 of 3

T. Piipponen
Marine Technology & Engineering Services, Southampton
Lloyd's Register EMEA

*Lloyd's Register EMEA
Mountbatten House, 1 Grosvenor Square. Southampton SO15 2JU*

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.