

Type Approval Certificate Extension

This is to certify that Certificate No. 05/10024 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Young Chang Silicone Co., Ltd.
PLACE OF PRODUCTION	481-7, Gasan-Dong, Gumchun-Gu, Seoul, 153-803 Korea
DESCRIPTION	300/500V Thermoplastic insulated and sheathed connection cable with Screen
TYPE	300/500V FFCS: Fluorinated ethylene propylene insulated, ethylene-tetrafluoroethylene (outer sheathed cable) 300/500V FFCS(S): Fluorinated ethylene propylene insulated, silicone rubber inner covering, ethylene-tetrafluoroethylene (outer sheathed cable)
APPLICATION	Fixed wiring on ships and offshore installations
DESIGN CODE STANDARD	Manufacturer's Specifications: No. YCS 04-M28, version 0.2 dated 03 November 2008, No. YCS 04-M28, version 0.1 dated 17 February 2005

Certificate No.	05/10024(E1)
Issue Date	15 June 2010
Expiry Date	14 June 2015
Sheet	1 of 2


H. Murase
Yokohama Design Support Office
Lloyd's Register

Lloyd's Register, registered office:
71 Fenchurch Street, London EC3M 4BS

Rated Voltage	Type	No. of Cores	Cross Section (mm ²)	Max. Conductor Temp. (°C)
300/500V	FFCS / FFCS(S) 2 x 0.75	2	0.75	100
	FFCS / FFCS(S) 3 x 0.75	3	0.75	
	FFCS / FFCS(S) 5 x 0.75	5	0.75	
	FFCS / FFCS(S) 7 x 0.75	7	0.75	
	FFCS / FFCS(S) 12 x 0.75	12	0.75	
	FFCS / FFCS(S) 16 x 0.75	16	0.75	
	FFCS / FFCS(S) 20 x 0.75	20	0.75	
	FFCS / FFCS(S) 2 x 1.00	2	1.00	
	FFCS / FFCS(S) 3 x 1.00	3	1.00	
	FFCS / FFCS(S) 5 x 1.00	5	1.00	
	FFCS / FFCS(S) 7 x 1.00	7	1.00	
	FFCS / FFCS(S) 2 x 1.50	2	1.50	
	FFCS / FFCS(S) 3 x 1.50	3	1.50	
	FFCS / FFCS(S) 5 x 1.50	5	1.50	
	FFCS / FFCS(S) 7 x 1.50	7	1.50	
	FFCS / FFCS(S) 2 x 2.00	2	2.00	
	FFCS / FFCS(S) 3 x 2.00	3	2.00	
	FFCS / FFCS(S) 2 x 2.50	2	2.50	
	FFCS / FFCS(S) 3 x 2.50	3	2.50	

"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 of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 05/10024(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 05/10024 to which this extension should be attached.

Certificate No. 05/10024(E1)

Issue Date 15 June 2010

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Sheet 2 of 2



H. Murase
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Marine Design Appraisal Document

Lloyd's Register
Yokohama Design Support Office
Queen's Tower A, 10th Floor,
2-3-1, Minatomirai, Nishi-ku,
Yokohama, 220-6010 Japan
Tel: +81-(0)45-682-5273, Fax: +81-(0)45-682-5279

Date
15 June 2010
Quote this reference on all future communications
YDS/T/SFZ/106723(E05-20)

THE LR TYPE APPROVAL SYSTEM, 2002.

Issued to: YOUNG CHANG SILICONE CO., LTD.
for: 300/500V THERMOPLASTIC INSULATED
AND SHEATHED CONNECTION CABLE WITH SCREEN
TYPE APPROVAL CERTIFICATE No. 05/10024(E1)

The undernoted documents have been reviewed for compliance with the requirements of the LR Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Request for Quotation (Form LR6606)	-	01 September 2009
Request for Marine Services (Form 2502)	-	03 September 2009
Manufacture's Specification	YCS 04-M28 Ver 0.2	03 November 2008
Manufacture's Specification	YCS 04-M28 Ver 0.1	17 February 2005
Verification for FEP & ETFE Material	-	17 February 2005

TEST REPORTS

Type Test Report of Renewal Type Approval For FFCS(S) Cable	YCS081105-1, -2, -3, -4	04 November 2008
Type Test Report of FFCS Cable	YCS 04-M28-2	09 December 2004

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the LR Type Approval System Procedure.

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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Queen's Tower A, 10th Floor,
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Yokohama, 220-6010 Japan
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S. Fujii
Electrical Engineer Surveyor
Electrical & Control Group
Yokohama Design Support Office
Lloyd's Register
Tel: +81 (0)45-682-5273, Fax: +81 (0)45-682-5279
Email: sachie.fujii@lr.org



H. Murase
Senior Electrical Engineer Surveyor & Group Leader
Electrical & Control Group
Yokohama Design Support Office
Lloyd's Register
Tel: +81 (0)45-682-5273, Fax: +81 (0)45-682-5279
Email: hiroshi.murase@lr.org

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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Part 1

Cables and Accessories

Producer/Licence No.	Description of Product				Cert. No.												
	Type	Details of Approval	Application	Remarks													
Young Chang Silicone Co., Ltd. 481-7, Gasan-Dong, Gumchun-Gu, Seoul, 153-803 Korea	300/500 V	300/500V Thermoplastic insulated and sheathed connection cable with Screen	Fixed wiring on ships and offshore installations	Expires : 14 June 2015 Complied with : Manufacturer's Specifications No. YCS 04-M28, version 0.2 dated 03 November 2008, No.YCS 04-M28, version 0.1 dated 17 February 2005	05/10024(E1)												
	FFCS	Fluorinated ethylene propylene insulated, ethylene-tetrafluoroethylene (outer sheathed cable)															
	FFCS(S)	Fluorinated ethylene propylene insulated, silicone rubber inner covering, ethylene-tetrafluoroethylene (outer sheathed cable)															
		<table border="0"> <tr> <td>Conductor size(mm²)</td> <td>No. of core</td> </tr> <tr> <td>0.75</td> <td>2 to 20</td> </tr> <tr> <td>1.00</td> <td>2 to 7</td> </tr> <tr> <td>1.50</td> <td>2 to 7</td> </tr> <tr> <td>2.00</td> <td>2 & 3</td> </tr> <tr> <td>2.50</td> <td>2 & 3</td> </tr> </table>	Conductor size(mm ²)	No. of core	0.75	2 to 20	1.00	2 to 7	1.50	2 to 7	2.00	2 & 3	2.50	2 & 3			
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0.75	2 to 20																
1.00	2 to 7																
1.50	2 to 7																
2.00	2 & 3																
2.50	2 & 3																
		Rated Voltage : 300/500V															
		Max. conductor Temperature : 100C°															

Lloyd's Register
 JUN. 15. 2010
 Yokohama Design Support Office

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