

# TB2012COC488

## RoHS Compliance Status of 488-XXXX-XXX HDM Connector Components

### Revision “D”

#### Specification Revision Status

Revision	SCR No.	Description	Initial	Date
-	S0637	Initial Release	J. Sharp	27-Aug-2007
A	S0808	Updated Korea RoHS Information. Updated to new 2008 Format. Added PNs.	J. Sharp	06-Mar-2008
B	S0978	Add new part number	M.Coopersmith-Gray	30-July 2008
C	S1024	Added DBDE Annulment of Exemption for EE	M.Coopersmith-Gray	5-Dec 2008
D	S1210	Clarification on DBDE Exemption	M.Coopersmith-Gray	23 March 2009

## Amphenol TCS

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## 1. Purpose and Scope

The purpose of this document is to certify compliance to various ROHS regulations of certain types of electronic equipment manufactured or purchased by Amphenol TCS for inclusion in products. This document covers all Amphenol TCS part numbers listed in Table 1 below. This document covers these products as they are manufactured in all Amphenol TCS facilities.

## 2. Referenced Documents

The following documents may be referenced in this document:

- 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive)
- 2005/618/EC: Commission Decision of 18 August 2005 amending Directive 2002/95/EC of the European Parliament and of the Council for the purpose of establishing the maximum concentration values for certain hazardous substances in electrical and electronic equipment
- 2005/747/EC: Commission Decision of 21 October 2005 amending for the purposes of adapting to technical progress the Annex to Directive 2002/95/EC of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment
- Commission Decisions 2005/717/EC of 13 October 2005, (OJ No. L271, 15.10.2005, p.48); 2005/747/EC of 21 October 2005, (OJ No. L280, 25.10.2005, p.18); 2006/310/EC of 21 April 2006, (OJ No. L115, 28.4.2006, p.38); 2006/690/EC, 2006/691/EC & 2006/692/EC (OJ No. L283, 14.10.2006, pages 47, 48 and 50) and 2008/385/EC (OJ No. L136, 24.5.2008, p. 9). The exemption formally given by point 2 of Commission Decision 2005/717/EC for "DecaBDE in polymeric applications" was annulled by a judgment of the European Court of Justice with effect from 30 June 2008, (for further detail see OJ No. C116, 9.5.2008, p. 2)
- .China RoHS - Management Methods for Control of Pollution Caused by Electronic Information Products, Ministry of Information Industry, February 28, 2006, Order No. 39
- China RoHS EIP List - Electronic Information Products Classification and Explanations
- SJ/T11364-2006 - Marking for Control of Pollution Caused by Electronic Information Products
- SJ/T11363-2006 - Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products
- SJ/T11365-2006 - Testing Methods for Hazardous Substances in Electronic Information Products
- GB 18455-2001 - Packaging Recycling Mark
- Law No. 8405 – Act for Resource Recycling of Electrical/Electronic Products and Automobiles (South Korea RoHS)
- Enforcement Act of Law Regarding Resource Recycling of Electrical/Electronic Products and Automobiles (South Korea RoHS)

## 3. Certifications

**Table 1. Amphenol TCS Parts Covered by this Certificate of Compliance.**

Amphenol TCS Part Number	Part/Product Description	RoHS Compliance Status Code (see Table 2)	Exemptions Used (see Table 4)	Compliant Since

Amphenol TCS Part Number	Part/Product Description	RoHS Compliance Status Code (see Table 2)	Exemptions Used (see Table 4)	Compliant Since
Amphenol TCS Part Number	Part/Product Description	RoHS Compliance Status Code (see Table 2)	Exemptions Used (see Table 4)	Compliant Since
488-5312-000	HDM Stacker Insulator Assy, Pressfit, 72 Position	EU-A CH-B(Lead) KOR-A	11	23-Mar-1999
488-5312-001	HDM Stacker Insulator Assy, Pressfit, 72 Position	EU-A CH-B(Lead) KOR-A	11	05-Apr-1999
488-5312-002	HDM Stacker Insulator Assy, Pressfit, 72 Position	EU-A CH-B(Lead) KOR-A	11	30-Jun-1999
488-5312-300	HDM Stacker Insulator Assy, Solder-tail, 72 Position	EU-A CH-B(Lead) KOR-A	7	30-Jun-1999
488-5312-400	HDM Stacker Insulator Assy, Solder-tail, 72 Position	EU-A CH-B(Lead) KOR-A	7	23-Mar-1999
488-5312-500	HDM Stacker Insulator Assy, Solder-tail, 72 Position	EU-A CH-B(Lead) KOR-A	7	23-Mar-1999
488-5312-600	HDM Stacker Insulator Assy, Solder-tail, 72 Position	EU-A CH-B(Lead) KOR-A	7	23-Mar-1999
488-5324-000	HDM Stacker Insulator Assy, Pressfit, 144 Position	EU-A CH-B(Lead) KOR-A	11	05-Apr-1999
488-5324-001	HDM Stacker Insulator Assy, Pressfit, 144 Position	EU-A CH-B(Lead) KOR-A	11	05-Apr-1999
488-5324-002	HDM Stacker Insulator Assy, Pressfit, 144 Position	EU-A CH-B(Lead) KOR-A	11	30-Jun-1999
488-5324-300	HDM Stacker Insulator Assy, Solder-tail, 144 Position	EU-A CH-B(Lead) KOR-A	7	30-Jun-1999
488-5324-350	HDM Stacker Insulator Assy, Solder-tail, 144 Position	EU-A CH-B(Lead) KOR-A	7	24-Nov-1999
488-5324-400	HDM Stacker Insulator Assy, Solder-tail, 144 Position	EU-A CH-B(Lead) KOR-A	7	30-Jun-1999
488-5324-500	HDM Stacker Insulator Assy, Solder-tail, 144 Position	EU-A CH-B(Lead) KOR-A	7	23-Mar-1999

Amphenol TCS Part Number	Part/Product Description	RoHS Compliance Status Code (see Table 2)	Exemptions Used (see Table 4)	Compliant Since
488-5324-600	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	23-Mar-1999
488-5412-300	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	23-Mar-1999
488-5412-400	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5412-500	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5412-600	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5424-300	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5424-350	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	01-Mar-2005
488-5424-400	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5424-500	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5424-600	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5512-300	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5512-400	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5512-600	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5524-300	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999

Amphenol TCS Part Number	Part/Product Description	RoHS Compliance Status Code (see Table 2)	Exemptions Used (see Table 4)	Compliant Since
488-5524-400	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5524-500	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5524-600	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5612-300	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5612-400	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5612-500	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5612-600	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	06-Apr-1999
488-5624-300	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	09-Apr-1999
488-5624-400	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	09-Apr-1999
488-5624-500	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	09-Apr-1999
488-5624-600	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	09-Apr-1999
488-5712-300	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	09-Apr-1999
488-5712-400	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	09-Apr-1999
488-5712-500	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	09-Apr-1999

Amphenol TCS Part Number	Part/Product Description	RoHS Compliance Status Code (see Table 2)	Exemptions Used (see Table 4)	Compliant Since
488-5712-600	HDM Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	09-Apr-1999
488-5724-300	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	09-Apr-1999
488-5724-350	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	11-May-1999
488-5724-400	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	09-Apr-1999
488-5724-500	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	09-Apr-1999
488-5724-600	HDM Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	09-Apr-1999
488-7006-000	HDM Custom Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	16-Nov-1998
488-7007-000	HDM Custom Stacker Insulator Assy, Pressfit, 72 Position	EU-A CH-B(Lead) KOR-A	11	14-Nov-1996
488-7008-000	HDM Custom Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	13-Nov-1996
488-7009-000	HDM Custom Stacker Insulator Assy, Pressfit, 144 Position	EU-A CH-B(Lead) KOR-A	11	14-Nov-1996
488-7010-000	HDM Custom Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	13-Nov-1996
488-7011-000	HDM Custom Stacker Insulator Assy, Soldertail, 72 Position	EU-A CH-B(Lead) KOR-A	7	13-Nov-1996
488-7012-000	HDM Custom Stacker Insulator Assy, Soldertail, 144 Position	EU-A CH-B(Lead) KOR-A	7	16-Apr-1999
488-7013-000	HDM Custom Stacker Insulator Assy, Pressfit, 72 Position	EU-A CH-B(Lead) KOR-A	11	08-Nov-1996

Amphenol TCS Part Number	Part/Product Description	RoHS Compliance Status Code (see Table 2)	Exemptions Used (see Table 4)	Compliant Since
488-7014-000	HDM Custom Stacker Insulator Assy, Pressfit, 144 Position	EU-A CH-B(Lead) KOR-A	11	08-Nov-1996
488-7015-000	HDM Custom Stacker Insulator Assy, Pressfit, 72 Position	EU-A CH-B(Lead) KOR-A	11	17-Mar-1997
488-7016-000	HDM Custom Stacker Insulator Assy, Pressfit, 144 Position	EU-A CH-B(Lead) KOR-A	11	17-Mar-1997
488-7017-000	HDM Custom Stacker Insulator Assy, Solderetail, 72 Position	EU-A CH-B(Lead) KOR-A	7	08-Apr-1997
488-7018-000	HDM Custom Stacker Insulator Assy, Solderetail, 144 Position	EU-A CH-B(Lead) KOR-A	7	08-Apr-1997
488-7020-000	HDM Custom Stacker Insulator Assy, Solderetail, 144 Position	EU-A CH-B(Lead) KOR-A	7	11-Sep-1997
488-7022-000	HDM Custom Stacker Insulator Assy, Pressfit, 144 Position	EU-A CH-B(Lead) KOR-A	11	01-Dec-1997
488-7023-000	HDM Custom Stacker Insulator Assy, Pressfit, 72 Position	EU-A CH-B(Lead) KOR-A	11	01-Dec-1997
488-7024-000	HDM Custom Stacker Insulator Assy, Pressfit, 144 Position	EU-A CH-B(Lead) KOR-A	11	09-Feb-1999
488-7026-000	HDM Custom Stacker Insulator Assy, Pressfit, 72 Position	EU-A CH-B(Lead) KOR-A	11	29-Oct-2004
488-7027-000	HDM Custom Stacker Insulator Assy, Solderetail, 144 Position	EU-A CH-B(Lead) KOR-A	7	20-Apr-2005
488-7029-000	HDM Custom Stacker Insulator Assy, Pressfit, 144 Position	EU-A CH-B(Lead) KOR-A	11	06-Mar-2006
488-3324-002	HDM Stacker, Insulator Assy, Lead Free	EU-A CH-B(Lead) KOR-A	None	30-June 2008

**Table 2. RoHS Compliance Status Code Explanation**

Status Code	RoHS Compliance Status Code Explanation
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Status Code	RoHS Compliance Status Code Explanation
CH-A	This part is in compliance with China RoHS on the restriction of the use of certain hazardous substances in Electronic Information Products. The homogeneous materials used in this part do not contain RoHS Restricted Substances above the Maximum Concentration Values shown in Table 3.
CH-B (X)	This part is NOT in compliance with China RoHS on the restriction of the use of certain hazardous substances in Electronic Information Products. Certain homogeneous materials used in this part do contain China RoHS Restricted Substances above the Maximum Concentration Values shown in Table 3, and there are no known exemptions to the usage of these substances. However, there are no bans on the use of this product. The only requirement at this time is that the hazardous substances (designated by "X" in parentheses) in this part must be declared in the Hazardous Substances Table for the final Product.
EU-A	This part is in compliance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive). Certain homogeneous materials used in this part do contain RoHS Restricted Substances above the Maximum Concentration Values shown in Table 3. RoHS Compliance requires the use of the exemptions shown in the column "Exemptions Used", and explained in Table 4.
EU-B	This part is in compliance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive). The homogeneous materials used in this part do not contain RoHS Restricted Substances above the Maximum Concentration Values shown in Table 3. No exemptions are required for EU RoHS Compliance.
EU-C	This part is NOT in compliance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive). Certain homogeneous materials used in this part do contain RoHS Restricted Substances above the Maximum Concentration Values shown in Table 3, and there are no known exemptions to the usage of these substances.
KOR-A	This part is not covered by the scope of the Act for Resource Recycling of Electrical/Electronic Products and Automobiles (Law No. 8405).
KOR-B	This part is in compliance with the Act for Resource Recycling of Electrical/Electronic Products and Automobiles. The homogeneous materials used in this part do not contain Korea RoHS Restricted Substances above the Maximum Concentration Values shown in Table 3. No exemptions are required for South Korea RoHS Compliance.
KOR-C	This part is in compliance with the Act for Resource Recycling of Electrical/Electronic Products and Automobiles. Certain homogeneous materials used in this part do contain Korea RoHS Restricted Substances above the Maximum Concentration Values shown in Table 3. RoHS Compliance requires the use of the exemptions shown in the column "Exemptions Used", and explained in Table 4.
KOR-D	This part is NOT in compliance with the Act for Resource Recycling of Electrical/Electronic Products and Automobiles. Certain homogeneous materials used in this part do contain Korea RoHS Restricted Substances above the Maximum Concentration Values shown in Table 3, and there are no known exemptions to the usage of these substances.

**Table 3. Maximum Concentration Values (MCVs) from 2005/618/EC, SJ/T11363-2006, and South Korea RoHS**

RoHS Restricted Substance	Maximum Concentration Value
Cadmium and its compounds	100 ppm (0.01 weight %)
Mercury and its compounds	1000 ppm (0.1 weight %)
Hexavalent chromium and its compounds	1000 ppm (0.1 weight %)
Lead and its compounds	1000 ppm (0.1 weight %)
Polybrominated biphenyls (PBB)	1000 ppm (0.1 weight %)
Polybrominated diphenyl ethers (PBDE)	1000 ppm (0.1 weight %)

All homogeneous materials in Amphenol TCS products do not contain Cd, Hg, Cr6+, PBB and PBDE (including deca BDE) above the Maximum Concentration Values.

**Table 4. Exemptions Used to Meet RoHS Compliance**

Exemption No.	Exemption Description
EU-5	Lead in glass of cathode ray tubes, electronic components and fluorescent tubes.
EU-6	Lead as alloying element in steel containing up to 0.35% lead by weight, aluminum containing up to 0.4% lead by weight, and as a copper alloy containing up to 4% lead by weight from 2002/95/EC.
EU-7	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signaling, transmission as well as network management for telecommunications from 2002/95/EC. <b>The use of this exemption must be verified by the customer. Using devices containing lead in equipment other than that listed is not covered by this exemption.</b>
EU-11	Lead used in compliant pin connector systems from 2005/747/EC.
KOR-1	Lead within cathode-ray tube, electrical parts and the glass of fluorescent tube
KOR-2	Lead as an alloy component in iron with up to 0.35% lead content based on weight, aluminum with 0.4% lead content, copper alloy with 4% lead content
KOR-4	Lead included in the solder for server, memory device, memory device placement system, network management for telecommunication, network infra device for conversion, signals, and transmission
KOR-6	Lead used in compliant pin connector system

ATCS products that are not lead-free comply with the RoHS Directive, provided they are used in one of the Application Exemptions for lead authorized under the RoHS Directive Annex, including but not limited to, lead in high melting temperature type solders, lead in solders for servers, storage and storage array systems, lead in solders for network infrastructure equipment for switching, signaling, transmission as well as network management for telecommunication and Lead used in compliant pin connector systems. To the extent these ATCS products are not used as provided for in one of the Application Exemptions, these Products would not comply with the RoHS Directive.

Any uses of lead-containing Products by Customer outside of the Application Exemption limits set forth in the RoHS Directive, shall be at Customer's sole risk, and ATCS disclaims any and all responsibility and or liability related to such use.

Signed for and on behalf of Amphenol-TCS:

Date: 23 March 2009



Martha N. Coopersmith-Gray  
Environmental & Safety Manager

For questions regarding this Certificate of Compliance, please contact Amphenol TCS at

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