



# Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No.	<b>3356706 HH</b>
Company	<b>Industria Lombarda Materiale Elettrico I.L.M.E. S.p.A. Via Marco Antonio Colonna, 9 20149 Milano, ITALY</b>
Product Description	<b>Connectors for use in signal control and power system with locking device</b>
Type	<b>1. CK, 2. CDA / CDC, 3. CD, 4. CDD, 5. CNE / CSE / CCE / CQE, 6. CX, 7. MIXO, 8. CTE / CTSE, CT / CTS 9. CQ</b>
Environmental Category	<b>Pos. 1, 2, 4 – 9 = A, pos. 3 = D</b>
Technical Data / Range of Application	<b>1. Multipole connector series CK CKM/F 03, CKM/F 03 N, CKM/F 04, CKM/F 04 N : I = 10A, U = 230/400V, poles = 3+PE, 4+PE, connection = screw 2,5 mm<sup>2</sup>, housing = die cast aluminium or plastic, IP44 (IP65/IP67)</b> <b>2. Multipole connector series CDA (screw) / CDC (crimp) CDAM/F 10, 10 X, 16, 16 X, 16 N, 16 XN : I = 16A, U = 250V, poles = 10, 16, 32 all types +PE, connection = screw 2,5 mm<sup>2</sup>, housing = die cast aluminium, IP65 CDCM/F 10, 16, 16 N : I = 16A, U = 250V, poles = 10, 16, 32 all types +PE, connection = crimp 4 mm<sup>2</sup>, housing = die cast aluminium, IP65</b> <b>3. Multipole connector series CD CDM/F 07, 07 N, 08 (U = 50V), 15, 25, 25 Z, 40, 64 : I = 10A, U = 250V, poles 7, 8, 15, 25, (50), 40, (80), 64, (128), connection = crimp 2,5 mm<sup>2</sup>, housing = die cast aluminium, (CDM/F 07 additional plastic), IP65, IP68 (series CG/MG for CDM/F 40, 64)</b>
Test Standard	<b>Guidelines for the Performance of Type Approvals Part 2, Edition 2003 IEC 61984:2001</b>
Documents	<b>GL test note 06/71676 dated 18.12.2006 catalogue CN.04 edition Jan. 2004 XDGCN064 UL file E115072, UL ECBT2.E115072</b>
Remarks	<b>Operating instruction of the manufacturer to be observed</b>
Valid until	<b>2011-12-18</b>
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File No.	<b>I.O.02</b>
<b>Hamburg, 2006-12-20</b>	

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#### 4. Multipole connector series CDD

CDDM/F 24, 38, 42, 72, 72 N, 108, 108 N : I = 10A, U = 250V, poles = 24, 38, 42, 72, (76), 108, (144), (216) all types +PE, connection = crimp 2,5 mm<sup>2</sup>, housing = die cast aluminium, IP65, IP68 (series CG/MG for all but CDDM/F 38)

#### 5 Multipole connector series CN / CNE / CCE / CQE / CSE

CNM/F 06, 06 X, 06 RY, 10, 10 X, 10 RY, 16, 16 X, 16 N, 16 XN, 16 RY, 16 RYN, 24, 24 X, 24 N, 24 XN, 24 RY, 24 RY N, 24 TN, 24 XN, 24 TXN, CNEM/F 06 RY, 06 TRY, 06 RYX, 06 TRYX, 10 RY, 10 TRY, 10 RYX, 10 TRYX, 16 RY, 16 TRY, 16 RYX, 16 TRYX, 16 RYN, 16 TRYN, 16 RYXN, 16 TRYXN, 24, 24 TRY, 24 RYX, 24 TRYX, 24 RYN, 24 TRYN, 24 RYXN, 24 TRYXN : I = 16A, U = 500V, poles = 6, 10, 16, 24, (32), (48) all types +PE,

connection = screw 2,5 mm<sup>2</sup>, housing = die cast al., IP65, IP68 (series CG/MG)

CCEM/F 06, 10, 16, 24, 16 N, 24 N, I = 16A, U = 500V, poles = 6, 10, 16, 24, (32)(48) all types + P

connection = crimp 4 mm<sup>2</sup>, housing = die cast al., IP65, IP68 (series CG/MG)

CQEM/F 10, 18, 32, 32 N, 46, 46 N, I = 16A, U = 500V, poles = 10, 18, 32, 46, (64), (9) all types + P

connection = crimp 4 mm<sup>2</sup>, housing = die cast al., IP65, IP68 (series CG/MG)

CSEM/F 06, 10, 16, 24, 16 N, 24 N, I = 16A, U = 500V, poles = 6, 10, 16, 24, (32), (48) a types + P

connection = screwless 2,5 mm<sup>2</sup>, housing = die cast al., IP65, IP68 (series CG/MG)

#### 6. Combined connectors series CX

CXM/F 4/0 : poles = 4 +PE, I = 80A, U = 690V, connection = screw 16 mm<sup>2</sup>, housing = die cast al., IP65, IP68 (series CG/MG)

CXM/F 4/2 : poles = 4 +PE, I = 80A, U = 690V, connection = screw 16 mm<sup>2</sup>, and 2 poles, I = 16A, U = 400V,

connection = screw 2,5 mm<sup>2</sup>, housing = die cast al., IP65, IP68 (series CG/MG)

CXM/F 4/8 : poles = 4 +PE, I = 80A, U = 400V, connection = screw 16 mm<sup>2</sup>, and 8 poles, I = 16A, U = 400V,

connection = screw 2,5 mm<sup>2</sup>, housing = die cast al., IP65, IP68 (series CG/MG)

CXM/F 6/36 : poles = 6 +PE, I = 40A, U = 690V, connection = crimp 6 mm<sup>2</sup>, and 36 poles, I = 10A, U = 160V,

connection = crimp 2,5 mm<sup>2</sup>, housing = die cast al., IP65, IP68 (series CG/MG)

CXM/F 8/24 : poles = 8 +PE, I = 16A, U = 230/400V, connection = crimp 4 mm<sup>2</sup>, and 24 poles, I = 10A, U = 160V,

connection = crimp 2,5 mm<sup>2</sup>, housing = die cast al., IP65, IP68 (series CG/MG)

CXM/F 12/2 : poles = 12 +PE, I = 40A, U = 690V, connection = crimp 6 mm<sup>2</sup>, and 2 poles, I = 10A, U = 250V,

connection = crimp 2,5 mm<sup>2</sup>, housing = die cast al., IP65, IP68 (series CG/MG) IP68 (series CG/MG)

CXM/F 8/24 : poles = 8 +PE, I = 16A, U = 230/400V, connection = crimp 4 mm<sup>2</sup>, and 24 poles, I = 10A, U = 160V,

connection = crimp 2,5 mm<sup>2</sup>, housing = die cast al., IP65, IP68 (series CG/MG)

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## 7 Modular connector series MIXO

CX 02 GM/F : poles = 2, I = 100A, U = 1000V, connection = crimp 35 mm<sup>2</sup>

CX 03 4M/F : poles = 3, I = 40A, U = 400/690V, connection = crimp 6 mm<sup>2</sup>

CX 05 SM/F : poles = 5, I = 16A, U = 400V, connection = screwless 2,5 mm<sup>2</sup>

CX 06 CM/F : poles = 6, I = 16A, U = 500V, connection = crimp 4 mm<sup>2</sup>

CX 12 DM/F : poles = 12, I = 10A, U = 250V, connection = crimp 2,5 mm<sup>2</sup>

CX 02 P : for 2 quick couplings Ø 6,0 mm, CX 03 P : for 3 quick couplings Ø 1,6 – 3,0 – 4,0 mm (pneumatic)

Accessories : fixed assembly frames for 1, 2, 3, 4 or 6 modules with PE connection, material = die cast zinc. Housing = die cast al., IP65, , IP68 (series CG/MG)

## 8. Terminal block connectors series CTE / CTSE

CTEM/F 06 L/R, 10 L/R, 16 L/R, 24 L/R : I = 16A, U = 500V, poles = 6, 10, 16, 24 (32), (48) all types PE  
connection = screw 2,5 mm<sup>2</sup>

CTSEM/F 06 L/R, 10 L/R, 16 L/R, 24 L/R : I = 16A, U = 500V, poles = 6, 10, 16, 24 (32), (48) all types +PE, connection = screwless 2,5 mm<sup>2</sup>

CTM/F 40 L/R, 64 L/R : I = 10A, U = 250V, poles = 40 +PE, 64 +PE, connection = screw 2,5 mm

CTSM/F 40 L/R, 64 L/R : I = 10A, U = 250V, poles = 40 +PE, 64 +PE, connection = screwless 2,5 mm

9. Connectors CQM/F 05 : I = 16A, U = 230/400V (05), poles = 5 + PE, connection = crimp 2,5 mm<sup>2</sup>, housing = plastic IP65/IP67 or die cast aluminium IP44 (IP65/IP67)

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