



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.	3356706 HH
Company	Industria Lombarda Materiale Elettrico I.L.M.E. S.p.A. Via Marco Antonio Colonna, 9 20149 Milano, ITALY
Product Description	Connectors for use in signal control and power system with locking device
Type	1. CK/CKS, 2. CDA / CDC, 3. CD, 4. CDD, 5. CN/CNE / CSE / CSH/ CCE/ CQE, 6. CX, 7. MIXO, 8. CTE / CTSE, CT / CTS 9. CQ
Environmental Category	Pos. 1, 2, 4 – 9 = A, pos. 3 = D
Technical Data / Range of Application	1. Multipole connector series K/CKS 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 mm², housing = die cast aluminium or zinc or thermoplastic, IP44 (IP65/IP67) or IP68(series CGK/MGK) CKSM/F03, CKSM/F03N, CKSM/F04, CKS/M04N: I=10A, U=400V, poles=3+PE, 4+PE, connection=spring 2.5mm², housing=die cast aluminium or zinc or thermoplastic, IP44(IP65/IP67) or IP68 (series CGK/MGK) 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 mm², 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 mm², housing = die cast aluminium, IP65
Test Standard	Guidelines for the Performance of Type Approvals Part 2, Edition 2003 IEC 61984:2001
Documents	GL test note 06/71676 dated 2006-12-18 and attachment dated 2011-07-01 catalogue CN.07 2nd edition 2008/09 XDGCN098, catalogue supplement March 2010 XDG NEW 310 UL file E115072, UL ECBT2.E115072
Remarks	Operating instruction of the manufacturer to be observed
Valid until	2016-07-04
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File No.	I.O.02
	Hamburg, 2011-07-05

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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 mm², housing = die cast aluminium or zinc, (CDM/F 07 additional thermoplastic), IP65, IP68 (series CGK/MGK for CDM/F 08, series CG/MG for CDM/F 40, 64), thermoplastic (series T-Type for CDM/F 40, 64) IP65

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 mm², housing = die cast aluminium, IP65, IP68 (series CG/MG for all but CDDM/F 38) thermoplastic /T-Type) IP 65

5. Multipole connector series CN / CNE / CCE / CQESE/CSH

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

I=16A,U=230/400V,poles=6,10,16,24,(32)(48)all types +PE,connection=screw2.5mm²,housing=die cast

al.,IP65,IP68(seriesCG/MG), thermoplastic (series T-Type) IP65

CNEM/F 06, 06 T, 06 X, 06 TX, 10, 10 T, 10 X, 10 TX, 16, 16 T, 16 X, 16 TX, 16 N, 16 TN, 16 XN, 16 TXN, 24, 24 T, 24 X, 24 TX, 24 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 mm², housing = die cast al., IP65, IP68 (series CG/MG),thermoplastic (series T-Type) IP65

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

connection = crimp 4 mm², housing = die cast al., IP65, IP68 (series CG/MG),thermoplastic (series T-Type) IP65

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

connection = crimp 4 mm², housing = die cast al., IP65, IP68 (series CG/MG),thermoplastic (series T-Type) IP65

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

connection = screwless 2,5 mm², housing = die cast al., IP65, IP68 (series CG/MG),thermoplastic (series T-Type) IP65

CSHM/F 06,10,16,24,16N,24N,I=16A, U=500V, poles=6,10,16,24,(32),(48)alltypes +PE,connection=screwless with actuator 2,5mm²,housing=die cast al., IP65,IP68 (series CG/MG), thermoplastic series T-Type)IP 65

6. Combined connectors series CX

CXM/F 4/0 : poles = 4 +PE, I = 80A, U = 690V, connection = screw 16 mm², housing = die cast al., IP65, IP68 (series CG/MG), thermoplastic (series T-Type) IP65

CXM/F 4/2 : poles = 4 +PE, I = 80A, U = 690V, connection = screw 16 mm², and 2 poles, I = 16A, U = 400V, connection = screw 2,5 mm², housing = die cast al., IP65, IP68 (series CG/MG), thermoplastic (series T-Type) IP65

CXM/F 4/8 : poles = 4 +PE, I = 80A, U = 400V, connection = screw 16 mm², and 8 poles, I = 16A, U = 400V, connection = screw 2,5 mm², housing = die cast al., IP65, IP68 (series CG/MG), plastic (series T-Type) IP65

CXM/F 6/36 : poles = 6 +PE, I = 40A, U = 690V, connection = crimp 6 mm², and 36 poles, I = 10A, U = 160V,

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connection = crimp 2,5 mm², housing = die cast al., IP65, IP68 (series CG/MG), thermoplastic (series T-Type) IP65
CXM/F 8/24 : poles = 8 +PE, I = 16A, U = 230/400V, connection = crimp 4 mm², and 24 poles, I = 10A, U = 160V,
connection = crimp 2,5 mm², housing = die cast al., IP65, IP68 (series CG/MG), thermoplastic (series T-Type) IP65
CXM/F 12/2 : poles = 12 +PE, I = 40A, U = 690V, connection = crimp 6 mm², and 2 poles, I = 10A, U = 250V,
connection = crimp 2,5 mm², housing = die cast al., IP65, IP68 (series CG/MG), thermoplastic (series T-Type) IP65

7. Modular connector series MIXO

CX 01 YM/F : poles=1, I=200A, U=1000V, connection=crimp 70mm²
CX 01 YPEM/F : poles=1, I=200A, U=1000V, connection=crimp 70mm²
CX 02 GM/F : poles = 2, I = 100A, U = 1000V, connection = crimp 35 mm²
CX 02 4AM/F : poles = 2, I = 40A, U = 1000V, connection = axial screw 8 mm²
CX 02 4BM/F : poles = 2, I = 40A, U = 1000V, connection = axial screw 10 mm²
CX 03 4M/F : poles = 3, I = 40A, U = 400/690V, connection = crimp 6 mm²
CX 05 SM/F : poles = 5, I = 16A, U = 400V, connection = screwless 2,5 mm²
CX 06 CM/F : poles = 6, I = 16A, U = 500V, connection = crimp 4 mm²
CX 08 CM/F : poles = 8, I = 16A, U = 400V, connection = crimp 4 mm²
CX 12 DM/F : poles = 12, I = 10A, U = 250V, connection = crimp 2,5 mm²
CX 20 CM/F : poles = 20, I = 16A, U = 500V, connection = crimp 4 mm²

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), thermoplastic (series T-Type) IP 65.

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 mm²
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 mm²
CTM/F 40 L/R, 64 L/R : I = 10A, U = 250V, poles = 40 +PE, 64 +PE, connection = screw 2,5 m²
CTSM/F 40 L/R, 64 L/R : I = 10A, U = 250V, poles = 40 +PE, 64 +PE, connection = screwless 2,5 m²

9. Connectors CQM/F 05 : I = 16A, U = 230/400V (05), poles = 5 + PE, connection = crimp 2,5 m², housing thermo plastic IP65/IP67 or die cast aluminium IP44 (IP65/IP67), or IP68 (series CGK/MGK)

Connectors CQM/F 12: I=16A, U=400V(12), poles=12+Pe, connection=crimp 2,5mm², housing=plastic IP65/67 or die cast aluminium IP 44 (IP65/IP67) or IP68 (series CGK/MGK)

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