Marine & Offshore

**Certificate number:** 53681/B0 BV
**File number:** AP1
**Product code:** 2556D

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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# TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

## INDUSTRIA LOMBARDA MATERIALE ELETTRICO I.L.M.E. SpA

Novate Milanese (MI) - ITALY

*for the type of product*

## CONNECTORS

Type designation code list see 1.1 on page 2

**Requirements:**
Bureau Veritas Rules for the Classification of Steel Ships

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 07 Feb 2030**

**For Bureau Veritas Marine & Offshore,**
At BV NAPOLI, on 07 Feb 2025,
Sandro BRUSEGAN

***This certificate was created electronically and is valid without signature***

# THE SCHEDULE OF APPROVAL

## 1. PRODUCT DESCRIPTION:

Connectors for use in signal, control and power systems with locking device.

### 1.1 - Type designation code:

| S.No | Type | Temperature | Humidity | Vibration |
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| 1 | CK / CKS / CKSH / JK / JKS / JKSH | 55°C | 100% | 4,0g |
| 2 | CDA / JDA / CDC / CSAH / JSAH | 55°C | 100% | 4,0g |
| 3 | CD / RD | 55°C | 100% | 4,0g |
| 4 | CDD / RDD | 55°C | 100% | 4,0g |
| 5 | CDS / CDSH / CDSH … NC / JDS / JDSH / RDSH | 55°C | 100% | 4,0g |
| 6 | CNE / JNE / CME / CCE / RCE / CMCE / CQE / CQEE / RQEE / CSE / JSE / CSS / CSH / JSH / RSH / CMSH | 55°C | 100% | 4,0g |
| 7 | CP | 55°C | 100% | 4,0g |
| 8 | CX / RX / CXC / RXC | 55°C | 100% | 4,0g |
| 9 | MIXO | 55°C | 100% | 4,0g |
| 10 | CT / CTSE / CTS | 55°C | 100% | 4,0g |
| 11 | CJ / CJK / CLK / CX 1/2 BD | 55°C | 100% | 4,0g |
| 12 | CQ / RQ / CQ4 / CQY | 55°C | 100% | 4,0g |
| 13 | CIF | 55°C | 100% | 4,0g |
| 14 | Hoods and Housings | 55°C | 100% | 4,0g |

### 1.2 - Technical Data/Range of Application:

| S.No | Type |
|---|---|
| 1 | **Multipole connector series CK / JK / CK … RY (screw); CKS / JKS / CKS … RY (spring); CKSH / JKSH (spring with actuator):**<br><br>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 plastic, IP44 (IP65/IP67) or die cast zinc IP66/IP68 (series CGK/MGK).<br><br>JKM/F 03, JKM/F 03 N, JKM/F 04, JKM/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 plastic, IP44 (IP65/IP67) or die cast zinc IP66/IP68 (series CGK/MGK).<br><br>CKM/F 03 RY, CKM/F 04 RY (high temperatures) : I = 10A, U = 230/400V, poles = 3+PE, 4+PE, connection = screw 2,5 mm2, housing = die cast aluminium or die cast zinc, IP44.<br><br>CKSM/F 03, CKSM/F 03 N, CKSM/F 04, CKS/M 04 N : I = 10A, U = 400V, poles = 3+PE, 4+PE, connection = spring 2,5 mm2, housing = die cast aluminium or zinc, or plastic, IP44 (IP65/IP67) or die cast zinc IP66/IP68 (series CGK/MGK).<br><br>JKSM/F 03, JKSM/F 03 N, JKSM/F 04, JKS/M 04 N : I = 10A, U = 400V, poles = 3+PE, 4+PE, connection = spring 2,5 mm2, housing = die cast aluminium or zinc, or plastic, IP44 (IP65/IP67) or die cast zinc IP66/IP68 (series CGK/MGK)<br><br>CKSM/F 03 RY, CKSM/F 04 RY (high temperatures) : I = 10A, U = 400V, poles = 3+PE, 4+PE, connection = spring 2,5 mm2, housing = die cast aluminium, IP44.<br><br>CKSHM/F 03, CKSHM/F 04 : I = 10A, U = 400V, poles = 3+PE, 4+PE, connection = spring with actuator 2,5 mm2, housing = die cast aluminium or zinc, or plastic, IP44 (IP65/IP67) or die cast zinc IP66/IP68 (series CGK/MGK).<br><br>JKSHM/F 03, JKSHM/F 04 : I = 10A, U = 400V, poles = 3+PE, 4+PE, connection = spring with actuator 2,5 mm2, housing = die cast aluminium or zinc, or plastic, IP44 (IP65/IP67) or die cast zinc IP66/IP68 (series CGK/MGK). |
| 2 | **Multipole connector series CDA (screw); JDA (screw, tin-plated contacts); CDC (crimp); CSAH (spring with actuator); JSAH (spring with actuator, tin-plated contacts):**<br><br>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, IP66. |

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| | JDAM/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, IP66.<br><br>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, IP66.<br><br>CSAHM/F 10, 16, 16 N, : I = 16A, U = 250V, poles = 10, 16, 32, all types +PE, connection = spring with actuator 2,5 mm2, housing = die cast aluminium, IP66.<br><br>JSAHM/F 10, 16, 16 N, : I = 16A, U = 250V, poles = 10, 16, 32, all types +PE, connection = spring with actuator 2,5 mm2, housing = die cast aluminium, IP66. |
| 3 | **Multipole connector series CD (crimp); RD (HNM, crimp):**<br><br>CDM/F 07, 07 N, 08 (U = 50V ac/120 V dc), 15, 25, 25 Z, 40, 64 : I = 10A, U = 250V, poles 7, 8, 15, 25, (50), 40, (80), 64, (128) +PE, connection = crimp 2,5 mm2, housing = die cast aluminium, (CDM/F 07 additional plastic), IP66, IP66/IP68 (series CG/MG for CDM/F 40, 64), plastic (series T-Type for CDM/F 40, 64) IP66.<br><br>Series RD (HNM = high number of matings), RDM/F 40, 64 : I = 10A, U = 250V, poles = 40, 64 +PE, connection = crimp 2,5 mm2, housings = die cast aluminium, IP66 (HNM) |
| 4 | **Multipole connector series CDD (crimp); RDD (HNM, crimp):**<br><br>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, IP66, IP66/IP68 (series CG/MG for all but CDDM/F 38), plastic (T-Type) IP66.<br><br>Series RDD (HNM = high number of matings), RDDM/F 24, 42, 72, 108 : I = 10A, U = 250V, poles = 24, 42, 72, 108 +PE, connection = crimp 2,5 mm2, housings = die cast aluminium, IP66 (HNM) |
| 5 | **Multipole connectors series CDS (spring); CDSH (spring with actuator); RDSH (HNM, spring with actuator); CDSH … NC (AutoShort); JDS (spring, tin-plated contacts); JDSH (spring with actuator, tin plated contacts):**<br><br>CDSM/F 09, 18, 27, 42, 27 N, 42 N : I = 10A, U = 400V, poles = 9, 18, 27, 42, (54), (84) all types +PE, connection = spring 2,5 mm2, housing = die cast aluminium, IP66, IP66/IP68 (series CG/MG), plastic (T-Type) IP65.<br><br>CDSHM/F 09, 18, 27, 42, 27 N, 42 N : I = 10A, U = 400V, poles = 9, 18, 27, 42, (54), (84) all types +PE, connection = spring with actuator 2,5 mm2, housing = die cast aluminium, IP66, IP66/IP68 (series CG/MG), plastic (T-Type) IP65.<br><br>RDSHM/F 09, 18, 27, 42, HNM (High Number of Matings): I = 10A, U = 400V, poles = 9, 18, 27, 42, ll types +PE, connection = spring with actuator 2,5 mm2, housing = die cast aluminium, IP66 (HNM)<br><br>CDSHM/F 06 NC AutoShort connector : poles = 6 +PE. Female unmated connector : I = 6A, V = 250 V; mated connectors : I = 10A, V = 250 V, connection = spring with actuator 2,5 mm2, housing = die cast aluminium, IP66, IP66/IP68 (series CG/MG), plastic (T-Type) IP65.<br><br>JDSM/F 09, 18, 27, 42, 27 N, 42 N : I = 10A, U = 400V, poles = 9, 18, 27, 42, (54), (84) all types +PE, connection = spring 2,5 mm2, housing = die cast aluminium, IP66, IP66/IP68 (series CG/MG), plastic (T-Type) IP65.<br><br>JDSHM/F 09, 18, 27, 42, 27 N, 42 N : I = 10A, U = 400V, poles = 9, 18, 27, 42, (54), (84) all types +PE, connection = spring with actuator 2,5 mm2, housing = die cast aluminium, IP66, IP66/IP68 (series CG/MG), plastic (T-Type) IP65. |
| 6 | **Multipole connector series CNE / JNE / CME (screw); CCE (crimp); RCE (HNM, crimp); CMCE / CQE / CQEE (crimp); RQEE (HNM, crimp) / CSE / JSE (spring); CSH / JSH / CMSH (spring with actuator):**<br><br>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 4 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG) , plastic (series T-Type) IP65.<br><br>JNEM/F 06, 10, 16, 24 : I = 16A, U = 500V, poles = 6, 10, 16, 24, (32), (48) all types +PE, tin-plated contacts, connection = screw 4 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG) , plastic (series T-Type) IP65.<br><br>CMEM/F 03 T/ TX, CMEM/F 06, 10 T/ TN/ TX/ TXN, I = 16A, U = 830V, poles = 3+2(aux), 6+2(aux), 10+2 (aux), 12+4(aux) (combining 06 T/ TX and 06 TN/ TXN), 20+4(aux) (combining 10 T/ TX and 10 TN/ TXN), connection = |

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| | screw 4 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65.<br><br>CMEM/F 16, 16 N, I = 16A, U = 400/690V, poles = 16+2(aux), 32+4 (combining 16 and 16 N), connection = screw 4 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65.<br><br>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., IP66, IP66/IP68 (series CG/MG) , plastic (series T-Type) IP65.<br><br>RCEM/F 06, 10, 16, 24, 16 N, 24 N, High Number of Matings (HNM), I = 16A, U = 500V, poles = 6, 10, 16, 24, (32), (48) all types +PE, connection = crimp 4 mm2, housing = die cast al., IP66 (versions for HNM).<br><br>CMCEM/F 03, 06, 06 N, 10, 10 N, I = 16A, U = 830V, poles = 3+2(aux), 6+2(aux), 10+2 (aux), 12+4(aux) (combining 06 and 06 N), 20+4(aux) (combining 10 and 10 N), connection = crimp 4 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65.<br><br>CMCEM/F 16, 16 N, I = 16A, U = 400/690V, poles = 16+2(aux), 32+4(aux) (combining 16 and 16 N), connection = crimp 4 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65.<br><br>CQEM/F 10, 18, 32, 32 N, 46, 46 N, I = 16A, U = 500V, poles = 10, 18, 32, 46, (64), (92) all types +PE, connection = crimp 4 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG) , plastic (series T-Type) IP65.<br><br>CQEEM/F 40, 64, 40 N, 64 N, I = 16A, U = 500V, poles = 40, 64, (80), (128) all types +PE, connection = crimp 4 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG) , plastic (series T-Type) IP65.<br><br>RQEEM/F 40, 64, High Number of Matings (HNM), I = 16A, U = 500V, poles = 40, 64, all types +PE, connection = crimp 4 mm2, housing = die castal., IP65, IP66, versions for HNM.<br><br>CSEM/F 06, 10, 16, 24, 16 N, 24 N, I = 16A, U = 500V, poles = 6, 10, 16, 24, (32), (48) all types +PE, connection = spring 2,5 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG) , plastic (series T-Type) IP65.<br><br>JSEM/F 06, 10, 16, 24, 16 N, 24 N, I = 16A, U = 500V, poles = 6, 10, 16, 24, (32), (48) all types +PE, tin-plated contacts, connection = spring 2,5 mm2, housing = die castal., IP66, IP66/IP68 (series CG/MG) , plastic (series T-Type) IP65.<br><br>CSSM/F 06, 10, 16, 16 N, 24, 24 N, I = 16A, U = 500V, poles = 6, 10, 16, 24, (32), (48) all types +PE, connection = spring 2,5 mm2 (two terminals per pole), housing = die castal., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65.<br><br>CSHM/F 06, 10, 16, 24, 16 N, 24 N, I = 16A, U = 500V, poles = 6, 10, 16, 24, (32), (48) all types +PE, connection = spring with actuator 2,5 mm2, housing = die castal., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65.<br><br>JSHM/F 06, 10, 16, 24, 16 N, 24 N, I = 16A, U = 500V, poles = 6, 10, 16, 24, (32), (48) all types +PE, tin-plated contacts, connection = spring with actuator 2,5 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65.<br><br>RSHM/F 06, 10, 16, 24, High Number of Matings (HNM), I = 16A, U = 500V, poles = 6, 10, 16, 24, all types +PE, HNM gold-plated contacts, connection = spring with actuator 2,5 mm2, housing = die cast al., IP66 (HNM)<br><br>CMSHM/F 03, 06, 06 N, 10, 10 N, I = 16A, U = 830V, poles = 3+2(aux), 6+2(aux), 12+4(aux), 10+2(aux) (combining 06 + 06 N), 20+4(aux) (combining 10 + 10 N), connection = spring with actuator 2,5 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65. |
| 7 | **Connectors series CP (screw):**<br><br>CPM/F 06, 06 N, 06 RY, 06 RYN : poles = 6 +PE (12+PE), I = 35A, U = 400/690 V, connection = screw 6 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65. |
| 8 | **Combined connectors series CX / RX / CXC / RXC:**<br><br>CXM/F 4/0 : poles = 4 +PE, I = 80A, U = 830V, connection = screw 16 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG) , plastic (series T-Type) IP65.<br><br>CXM/F 4/2 : poles = 4 +PE, I = 80A, U = 830V, connection = screw 16 mm2, and 2 poles, I = 16A, U = 400V, connection = screw 2,5 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG) , plastic (series T-Type) IP65. |

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| | CXCM/F 4/2: poles = 4 +PE, I = 80A, U = 830V, connection = crimp (series CX7) 25 mm2, and 2 poles, I = 16A, U = 400V, connection = crimp (series CC) 4 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65.<br><br>RXCM/F 4/2 (HNM, High Number of Matings): poles = 4 +PE, I = 80A, U = 830V, connection = crimp (series RX7) 25 mm2, and 2 poles, I = 16A, U = 400V, connection = crimp (series RC) 4 mm2, housing = die cast al., IP66 (HNM).<br><br>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., IP66, IP66/IP68 (series CG/MG) , plastic (series T-Type) IP65.<br><br>CXCM/F 4/8: poles = 4 +PE, I = 80A, U = 400V, connection = crimp (series CX7) 25 mm2, and 8 poles, I = 16A, U = 400V, connection = crimp (series CC) 4 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65.<br><br>RXCM/F 4/8 (HNM, High Number of Matings): poles = 4 +PE, I = 80A, U = 400V, connection = crimp (series RX7) 25 mm2, and 8 poles, I = 16A, U = 400V, connection = crimp (series RC) 4 mm2, housing = die cast al., IP66 (HNM).<br><br>CXM/F 6/36 : poles = 6 +PE, I = 40A, U = 690V, connection = crimp (series CX) 6 mm2, and 36 poles, I = 10A, U = 160V, connection = crimp (series CD) 2,5 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG) , plastic (series T-Type) IP65.<br><br>CXM/F 9/42 /-K: poles = 9 +PE, I = 40A, U = 690V, connection = crimp (series CX) 6 mm2, and 42 poles, I = 10A, U = 160V, connection = crimp (series CD) 2,5 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65.<br><br>CXM/F 8/24 : poles = 8 +PE, I = 16A, U = 230/400V, connection = crimp (series CC) 4 mm2, and 24 poles, I = 10A, U = 160V, connection = crimp (series CD) 2,5 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG) , plastic (series T-Type) IP65.<br><br>CXM/F 12/2 : poles = 12 +PE, I = 40A, U = 690V, connection = crimp (series CX) 6 mm2, and 2 poles, I = 10A, U = 250V, connection = crimp (series CD) 2,5 mm2, housings = die cast al., IP66, IP66/IP68 (series CG/MG) , plastic (series T-Type) IP65.<br><br>RXM/F 12/2 /-K (HNM, High Number of Matings): poles = 12 +PE, I = 40A, U = 690V, connection = crimp (series RX) 6 mm2, and 2 poles, I = 10A, U = 250V, connection = crimp (series RD) 2,5 mm2, housings = die cast al., IP66 (HNM).<br><br>CXM/F 6/6 : poles = 6 +PE, I = 100A, U = 690V, connection = crimp (series CG) 35 mm2, and 6 poles, I = 16A, U = 400V, connection = crimp (series CC) 4 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG) , plastic (series T-Type) IP65.<br><br>CXM/F 8/0: poles = 8 +PE, I = 100A, U = 690V, connection = crimp (series CG) 35 mm2, housing = die cast al., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65.<br><br>CXM/F 6/12 : poles = 6 +PE, I = 40A, U = 690V, connection = crimp (series CX) 10 mm2, and 12 poles, I = 16A, U = 230/400V, connection = crimp (series CC) 4 mm2, housings = see 11. |
| 9 | **Modular connector series MIXO:**<br><br>CX 01 YM/F: poles = 1, I = 200A, U = 1000V, connection = crimp (series CY) 70 mm2.<br><br>CX 01 YAM/F: poles = 1, I = 200A, U = 1000V, connection = screw 70 mm2.<br><br>CX 01 YPEM/F: poles = 1, I = 200A, U = 1000V, connection = crimp (series CY) 70 mm2. |

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| | CX 01 YPEAM/F: poles = 1, I = 200A, U = 1000V, connection = screw 70 mm2.<br><br>CX 01 GM/F: poles = 1, I = 100A, U = 830V, connection = crimp (series CG) 35 mm2.<br><br>CX 02 GM/F: poles = 2, I = 100A, U = 1000V, connection = crimp (series CG) 35 mm2.<br><br>CX 02 7M/F: poles = 2, I = 70A, U = 1000V, connection = crimp (series CG) 25 mm2.<br><br>CX 02 4M/F: poles = 2, I = 40A, U = 1000V, connection = crimp (series CX) 10 mm2.<br><br>CX 02 4AM/F: poles = 2, I = 40A, U = 1000V, connection = axial screw 8 mm2.<br><br>CX 02 4BM/F: poles = 2, I = 40A, U = 1000V, connection = axial screw 10 mm2.<br><br>CX 02 HM/F: poles = 2, I = 16A, U = 2900/5000V, connection = crimp (series CC) 4 mm2<br><br>CX 02 CHM/F: poles = 2, I = 16A, U = 2500V, connection = crimp (series CC) 4 mm2<br><br>CX 02 4HM/F: poles = 2, I = 40A, U = 2900/5000V, connection = crimp (series CX) 10 mm2<br><br>CX 3/4 XDM/F: poles 3, I = 40A, U = 830V + poles 4, I = 10A, U = 830V, connection = crimp (series CX) 6 mm2 / (series CD) 2,5 mm2.<br><br>CX 6/8 XDM/F: poles 6, I = 40A, U = 830V + poles 8, I = 10A, U = 830V, connection = crimp (series CX) 6 mm2 / (series CD) 2,5 mm2.<br><br>CX 03 4M/F: poles = 3, I = 40A, U = 400/690V, connection = crimp (series CX) 6 mm2.<br><br>CX 03 4BM/F: poles = 3, I = 40A, U = 500V, connection = crimp (series CX) 10 mm2.<br><br>CX 04 XM/F: poles = 4, I = 40A, U = 830V, connection = crimp (series CX) 6 mm2.<br><br>CX 05 SM/F: poles = 5, I = 16A, U = 400V, connection = spring 2,5 mm2.<br><br>CX 05 SHM/F: poles = 5, I = 16A, U = 400V, connection = spring with actuator 2,5 mm2<br><br>CX 06 CM/F: poles = 6, I = 16A, U = 500V, connection = crimp (series CC) 4 mm2.<br><br>CX 06 CYM/F: poles = 6, I = 16A, U = 500V, connection = spring/AXYR® push-in 2,5 mm2<br><br>CX 06P CM/F: poles = 6, I = 16A, U = 500V, connection = crimp (series CC) 4 mm2<br><br>CX 08 CM/F: poles = 8, I = 16A, U = 400V, connection = crimp (series CC) 4 mm2.<br><br>CX 08 CYM/F: poles = 8, I = 16A, U = 400 V, connection = spring/AXYR® push-in 2,5 mm2<br><br>CX 08 D5M/F: poles = 8+shield, I = 10A, U = 50V, connection = crimp (series CD) 2,5 mm2, 1-cable outlet<br><br>CX 08 D5M2/F2: poles = 8+shield, I = 10A, U = 50V, connection = crimp (series CD) 2,5 mm2, 2-cable outlet<br><br>CX 08 D5GM/F: poles = 8+shield, I = 10A, U = 50V, connection = crimp (series CD) 2,5 mm2, 1-cable outlet<br><br>CX 08 D5GM2/F2: poles = 8+shield, I = 10A, U = 50V, connection = crimp (series CD) 2,5 mm2, 2-cable outlet<br><br>RX 08 D5M/F: poles = 8+shield, I = 10A, U = 50V, connection = crimp (series RI, HNM) 2,5 mm2 1-cable outlet<br><br>RX 08 D5M2/F2: poles = 8+shield, I = 10A, U = 50V, connection = crimp (series RI, HNM) 2,5 mm2, 2-cable outlet<br><br>RX 08 D5GM/F: poles = 8+shield, I = 10A, U = 50V, connection = crimp (series RI, HNM) 2,5 mm2, 1-cable outlet<br><br>RX 08 D5GM2/F2, poles = 8+shield, I = 10A, U = 50V, connection = crimp (series RI, HNM) 2,5 mm2, 2-cable outlet |

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| | CX 08 I6M/F, poles = 8+shield, I = 5A, U = 50V, connection = crimp (series CI) 0,5 mm2<br><br>CX 08 I6GM/F, poles = 8+shield, I = 5A, U = 50V, connection = crimp (series CI) 0,5 mm2<br><br>RX 08 I6M/F, poles = 8+shield, I = 5A, U = 50V, connection = crimp (series RI, HNM) 0,5 mm2<br><br>RX 08 I6GM/F, poles = 8+shield, I = 5A, U = 50V, connection = crimp (series Ri, HNM) 0,5 mm2<br><br>CX 12 DM/F: poles = 12, I = 10A, U = 250V, connection = crimp (series CD) 2,5 mm2.<br><br>CX 17 DM/F: poles = 17, I = 10A, U = 160V, connection = crimp (series CD) 2,5 mm2.<br><br>CX 20 CM/F: poles = 20, I = 16A, U = 500V, connection = crimp (series CC) 4 mm2.<br><br>CX 60 CM/F: poles = 60, I = 16A, U = 500V, connection = crimp (series CC) 4 mm2.<br><br>CX 20S IM/F, poles = 20+shield, I = 4A, U = 32V, connection = crimp (series CI) 0,5 mm2<br><br>CX 20S IGM/F, poles = 20+shield, I = 4A, U = 32V, connection = crimp (series CI) 0,5 mm2<br><br>RX 20S IM/F, poles = 20+shield, I = 4A, U = 32V, connection = crimp (series RI, HNM) 0,5 mm2<br><br>RX 20S IGM/F, poles = 20 + shield, I = 4A, U=32V, connection = crimp (series RI, HNM) 0,5 mm2<br><br>CX 25 IM/F: poles = 25, I = 4A, U = 50Vac/120Vdc, connection = crimp (series CI) 0,5 mm2.<br><br>CX 25 IBM/F: poles = 25, I = 4A, U = 50Vac/120Vdc, connection = crimp (series CI) 0,75 mm2.<br><br>CX 36 IM/F: poles = 36, I = 4A, U = 32V, connection = crimp (series CI) 0,5 mm2<br><br>CX 42 DM/F: poles = 42, I = 10A, U = 150V, connection = crimp (series CD) 2,5 mm2<br><br>CX 02 P: for 2 quick couplings Ø 6,0 mm (pneumatic, plastic: CX 6.0 PM/PF/VC), CX 03 P: for 3 quick couplings Ø 1,6 – 3,0– 4,0 mm (pneumatic, plastic: CX 1.6 /3.0 /4.0 PM/PF/VC).<br><br>CX 03 MP, for 3 quick couplings Ø 3,0 – 4,0 – 6,0 mm (pneumatic metal: CX 3.0/4.0/6.0 MPM /MPF /MPV /MPQM /MPQF /MPQV, MPAM /MPAF /MPAV)<br><br>MIXO BUS holder module CX 02 BM/F: seats 2, for up to 2 connectors CX 01 BM/F (1P + shield, coaxial 75Ù), I = 10A, U = 50Vac/120Vdc, connection = crimp (series CD) 2,5 mm2; CX 01 BCM/F (1P + screen, coaxial 50Ù) I = 16A, U = 50Vac/120Vdc, connection = crimp (series CC) 4 mm2; CX 04 BM/F (4P + screen, multi-axial) I = 10A, U = 50Vac/120Vdc, connection = crimp (series CD) 2,5 mm2; CX 08 BM/F (8P + screen) I = 5A, U = 50Vac/120Vdc, connection = crimp (series CI) 0,5 mm2.<br>MIXO module for RJ-45 Cat 6A Class EA: CX 01 J8M/F, CX 01 J8IM, CX 8 J6M, CX 08 J6IM,<br><br>MIXO module RJ-45 jack, shielded, Cat. 6A, Class EA, 8-way, connection = IDC, solid 0,40-0,64 mm2 (AWG 26/1 – AWG 22/1), stranded 0,48-0,76 mm2 (AWG 26/7 – AWG 22/7), CX 01 J8AIF (T568A pin assignment), CX 01 J8BIF (T568B pin assignment), CX 01 J8PIF (Profinet pin assignment), I = 1A, U = 50V<br><br>MIXO module, male RJ-45 patch cord universal adapter, CX 01 JUM<br><br>MIXO module for 1 RJ-45 connector + 4P CX 01 JM/F I = 10A, U = 250V, connection = crimp (series CD) 2,5 mm2;<br><br>MIXO module for 2 RJ-45 connectors + 8P CX 02 JM/F, I = 10A, U = 250V, connection = crimp (series CD) 2,5 mm2;<br><br>MIXO adapter module for USB connector CX 01 UM/F;<br>MIXO module adapter for D-Sub 9P connector CX 01 9VM/F, I = 5A, U = 50 Vac/120Vdc, connection = crimp (series CI) 0,5 mm2;<br>MIXO module CX 01 MIM/F for HDMI connectors, / = 0,5 A, U = 40V, MIF = female/female module, MIM = adapter module for male HDMI Type A patch cord;<br>MIXO module CX 04 LM/F for POF (CX PLM/F) and MOST© (CX MLM/F) fibre optic contacts, or for coaxial |

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| | contacts 50# CX 50 M/F or 75# CX 75 M/F.<br><br>MIXO module CX 04 RM/F for coaxial contacts 50# CX 50 RM/F or 75# CX 75 RM/F<br>MIXO fibre optic SC module CX 04 SCM/ SCF /SCF-H for 4 SC connectors<br><br>Accessories: CX 01 T (genderless), CX 02 /03 /04 /06 TM/F standard fixed assembly frames for 1, 2, 3, 4 or 6 single-sized modules, with PE connections and contacts (nickel plated), material = die cast zinc. Housing = die cast al., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65.<br><br>Accessories: RX 01 T (genderless), RX 02 /03 /04 /06 TM/F HNM (High Number of Matings) fixed assembly frames for 1, 2, 3, 4 or 6 single-sized modules, with PE connections and contacts (gold plated, lubricated), material = die cast zinc. Housing = die cast al., IP66, IP66/IP68 (series CG/MG), plastic (series T-Type) IP65. |
| 10 | **Terminal block connectors series CT (screw); CTSE / CTS (spring):**<br><br>CTM/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.<br><br>CTM/F 40 L/R, 64 L/R : I = 10A, U = 250V, poles = 40 +PE, 64 +PE, connection = screw 2,5 mm2.<br><br>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 = spring 2,5 mm2.<br><br>CTSM/F 40 L/R, 64 L/R : I = 10A, U = 250V, poles = 40 +PE, 64 +PE, connection = spring 2,5 mm2. |
| 11 | **Connector adapters series CJ / CJK / CLK / CX 1/2 BD / CUK / CJZ / CJZA:**<br><br>CJ KF/M female and male adapter size “21.21”. The female adapter is for RJ-45 cat. 5 female/female data connector (for bulkhead-mount fixed housing series CK (plastic, IP44 or IP65/IP67), CKA (aluminium or zinc alloy, IP44 or IP65/IP67) or CGK (zinc alloy, IP66/IP68). Male adapter for male RJ-45 cat. 5 data connector or patch cord, for free cable connector housings series CK/MK (plastic, IP44 or IP65/IP67), CKA/MKA (aluminium or zinc alloy, IP44 or IP65/IP67) or CGK/MGK (zinc alloy, IP66/IP68);<br><br>CJK 8FT/ 8MT / 8IFT / 8B IFT / 8P IFT / 8IMT female and male adapters size “21.21”. Female adapter for female/female RJ-45 cat. 6A data connector for bulkhead-mount fixed housing series CK (plastic, IP44 or IP65/IP67), CKA (aluminium or zinc alloy, IP44 or IP65/IP67) or CGK (zinc alloy, IP66/IP68). Male adapter for male RJ-45 cat. 6A data connector or patch cord, for free cable connector housings series CK/MK (plastic, IP44 or IP65/IP67), CKA/MKA (aluminium or zinc alloy, IP44 or IP65/IP67) or CGK/MGK (zinc alloy, IP66/IP68);<br><br>CJK 8M universal patch cord adapter size “21.21”<br><br>CUK 2FT female insert size “21.21” with USB 2.0 female-female connector, CUK 3FT female insert size “21.21” with USB 3.0 female-female connector<br><br>CJZA 8 I RJ-45 female-female 8-way coupler in bulkhead metal enclosure size “21.21”; CJZ 8 IN RJ-45 female-female 8-way coupler in bulkhead insulating enclosure size “21.21”, black colour<br>CJZ 4 IN RJ-45 female-female 4-way coupler in bulkhead mounting insulating housing size “21.21”, black colour, CJZ 8 IN same but RJ-45 8-way<br>CJZ 4 VN RJ-45 male plug, in size “21.21” insulating hood, black colour, with plastic cable gland<br>CJZA 4 I RJ-45 female-female 4-way coupler in size “21.21” bulkhead mounting metal housing<br>CJZA 4 V RJ-45 male plug, in size “21.21” metal hood, grey colour, with metal cable gland<br>CJZA 8 IA4 RJ-45 female-female coupler in angled size “21.21” bulkhead mounting metal housing, 4 fixing screws, stainless steel locking lever, CJZAX 8 IA4 same but with galvanized steel rigid locking lever, CJZAXX 8 IA4 same but with stainless steel rigid locking lever<br><br>CLK 04 SCF/ F-H/ M adapters size “21.21” for 4 type SC fibre optic connectors, for housings series CK/MK (plastic, IP65/IP67), CKA/MKA (aluminium or zinc alloy, IP65/IP67) or CGK/MGK (zinc alloy, IP66/IP68). |
| 12 | **Multipole connectors series CQ (crimp); RQ (HNM, crimp); CQY (spring); CQ4 (crimp):**<br><br>Connectors CQM/F 04/2: I = 40A, U = 400/690V, poles 4 + PE, connection = crimp (series CX) 6 mm2 and I = 10A, U = 250V, poles = 2, connection = crimp (series CD) 2,5 mm2, housing = plastic IP65/IP67. |

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| | Connectors CQ4M/F 02: I = 40A, U = 400V, poles 2 +PE, connection = crimp (series CX) 10 mm², housing = plastic IP65/IP67 or die cast aluminium IP44 (IP65/IP67), or die cast zinc IP66/IP68 (series CGK/MGK)<br><br>Connectors CQ4M/F 02 H: I = 40A, U = 830V, poles 2 +PE, connection = crimp (series CX) 10 mm², housing = plastic IP65/IP67 or die cast aluminium IP44 (IP65/IP67), or die cast zinc IP66/IP68 (series CGK/MGK)<br><br>Connectors CQ4M/F 03: I = 40A, U = 400V, poles 3 +PE, connection = crimp (series CX) 10 mm2, housing = plastic IP65/IP67 or die cast aluminium IP44 (IP65/IP67), or die cast zinc IP66/IP68 (series CGK/MGK).<br><br>Connectors CQ4M/F 03/2: I = 40A/10A, U = 400V/250V, poles 3 +PE (power) + 2 (auxiliaries), connection = crimp (series CX) 6 mm2 (power), (series CD) 2,5 mm2 (auxiliaries), housing = plastic IP65/IP67 or die cast aluminium IP44 (IP65/IP67), or die cast zinc IP66/IP68 (series CGK/MGK)<br><br>Connectors CQM/F 05: I = 16A, U = 230/400V (05), poles = 5 + PE, connection = crimp (series CC) 2,5 mm2, housing = plastic IP65/IP67 or die cast aluminium IP44 (IP65/IP67), or die cast zinc IP66/IP68 (series CGK/MGK).<br><br>Connectors RQM/F 05 (HNM): I = 16A, U = 230/400V, poles = 5 + PE, connection = crimp (series RC) 2,5 mm², housing = die cast aluminium IP44 (IP65/IP67) (HNM)<br><br>Connectors CQYM/F 05: I = 16A, U = 230/400V, poles = 5 + PE, connection = spring/AXYR® push-in 2,5 m2, housing = thermoplastic IP65/IP67 or die cast aluminium IP44 (IP65/IP67), or die cast zinc IP68 (series CGK/MGK)<br><br>Connectors CQM/F 07: I = 10A, U = 400V, poles = 7 + PE, connection = crimp 2,5 mm2, housing = plastic IP65/IP67 or die cast aluminium IP44 (IP65/IP67), or die cast zinc IP66/IP68 (series CGK/MGK).<br><br>Connectors CQM/F 08: I = 16A, U = 500V, poles 8 + PE, connection = crimp (series CC) 4 mm2, housing = plastic IP65/IP67<br><br>Connectors CQM/F 08E: I = 16A, U = 500V, poles 8 + PE, connection = crimp (series CC) 4 mm², housing = plastic IP65/IP67, or die cast zinc alloy IP66/IP67/IP69 (CQA-MQA)<br><br>Connectors CQYM/F 08E: I = 16A, U = 500V, poles 8 + PE, connection = spring/AXYR® push-in 2,5 mm², housing = plastic IP65/IP67 or die cast zinc alloy IP66/IP67/IP69 (series CQA-MQA)<br><br>Connectors CQM/F 12: I = 16A, U = 400V (12), poles = 12 + PE, connection = crimp (series CD) 2,5 mm2, housing = plastic IP65/IP67 or die cast aluminium IP44 (IP65/IP67), or die cast zinc IP66/IP68 (series CGK/MGK).<br><br>Connectors CQM/F 12 CIF: I = 16A, U = 250V, poles = 12 + PE, connection = plug-in on the rear to the PCB interface connector CIF Q12 2.4<br><br>Connectors CQM/F 17: I = 10A, U = 160V, poles 17, connection = crimp (series CD) 2,5 mm2, housing = plastic IP65/IP67<br><br>Connectors CQM/F 21: I = 6,5A, U = 50V ac / 120 V dc, poles = 21, connection = crimp (series CI) 0,5 mm2, housing = plastic IP65/IP67 or die cast aluminium IP44 (IP65/IP67), or die cast zinc IP66/IP68 (series CGK/MGK). |
| 13 | **PCB interface connectors: series CIF** |

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| | CIF 2.4 (gold plated contacts), CIF 2.4 A (silver plated contacts) module adapter for series CDD 24 (4 modules), CDD 42 (7 modules), CDD 72 (12 modules), CDD 108 (18 modules), CX 8/24 (4 modules), CX 6/36 (6 modules), MIXO CX 12 D (2 modules), I = 7,5A, U = 250V, poles = 6, connection = solder;<br><br>CIF Q05 2.4 (silver plated contacts), adapter for CQM/F 05, I = 10A, U = 250V, poles = 5 (pass-through PE), connection = solder;<br><br>CIF Q07 2.4 (gold plated contacts), adapter for CQM/F 07, I = 7,5A, U = 250V, poles = 7 (pass-through PE), connection = solder;<br><br>CIF Q12 2.4 (gold plated contacts), adapter for CQM/F 12 CIF, I = 7,5A, U = 250V, poles = 12 + PE, connection = solder;<br><br>CIF Q08 1.6 (silver plated contacts), adapter for CQM/F 08, I = 16A, U=230/400V, poles = 8, connection = solder;<br><br>CIF Q4/2 2.4 (silver plated power contacts, gold plated auxiliary contacts), adapter for CQM/F 04/2, I = 30A (power contacts), I = 7,5A (auxiliary contacts), U = 400/690V (power), U = 250V (auxiliaries), poles = 4 (power) + 2 (auxiliaries), connection = solder;<br><br>CIF X17 2.4 (gold plated contacts), adapter for MIXO CX 17 DM/F, I = 7,5A, U = 160V, poles = 17, connection = solder;<br><br>CIF 5 2.4 (gold plated contacts), module adapter for CX 17 DM/F (in combination with 2× CIF 2.4), I = 7,5A, U = 160V, poles = 5, connection = solder;<br><br>Accessories: Interface contacts for PCB interface connectors series CIF: CDMA/FA 6A, CDFA 6A28, CDMA 6A32, CDMD/FD 6A, CCFFA, CCMFA, CXFFA, CXMFA. |
| 14 | **Connector hoods and housings:**<br><br>Type: Standard (w/ Class lever or w/ V-Type lever or w/IL-BRID lever), W-Type, S-Type (EMC), R-Type (high temperatures), CG-MG (die cast aluminium, IP66/IP68), CGK-MGK (die cast zinc IP66/IP68), CQ-MQ (insulating material), CQA-MQA (die cast zinc), MIXO ONE (die cast aluminium), E-Xtreme®, T-Type (insulating material), T-Type Hygienic (/H, /C), T-Type /W (aggressive environment), COB supports<br>Series standard (w/ Class locking lever)<br><br>Series standard (w/ IL-BRID locking lever)<br><br>Series JEI®-P and JEI®-V<br><br>Series BIG<br><br>Series 830V<br><br>Series Simplex (w/ self-closing cover)<br>Series LS-Type (black for light and sound (entertainment) installations)<br><br>Series W-Type for aggressive environment<br><br>Series S-Type (EMC)<br>Series CG/MG (die cast aluminium alloy, IP66/IP68)<br>Series CGK-MGK (die cast zinc alloy, IP66/IP68)<br>Series CQ 08/ MQ 08 (insulating material)<br><br>Series CQA 08/ MQA 08 (die cast zinc, IP66/IP67/IP69)<br><br>Series MIXO ONE (CXA-MXA single module enclosures, die cast aluminium, IP65)<br><br>Series R-Type (high temperatures)<br><br>Series C7-M7 (IP66/IP67) w/ V-Type lever |

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| | Series T-Type (insulating material enclosures)<br><br>Series T-Type Hygienic (/H = hygienic, /C = hygienic cold)<br><br>Series T-Type /W (aggressive environments)<br><br>Series E-Xtreme® (either w/ Class lever or V-Type lever or IP66/IP68)<br><br>Series COB System |

**2. DOCUMENTS AND DRAWINGS:**

- ILME Catalogue CN.19 (XDG_CN_323_issue_13), dated Mar 2023.
- ILME Catalogue JEI® 2015 (XDG_JEI_415_issue_822)
- ILME Catalogue News 2020 (XDGPDT20_223_issue_11)
- ILME Catalogue News 2021 (XDGPDT21_223_issue_07)
- ILME Catalogue News 2022 (XDGPDT22_223_issue_13)
- UL document E115072, dated 06 Jun 2023.
- UL document E506437, dated 02 Jan 2023.

**3. TEST REPORTS:**

**ILME Test Departement:**

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| - Test Report No.: 2017/D031 rev1.0 dated 26-07-2018. | - Test Report No.: 2021/D145-2 rev.1.1 dated 14-10-2022. |
| - Test Report No.: 2017/D039 rev1.0 dated 26-07-2018. | - Test Report No.: 2021/D231 rev1.1 dated 20-09-2022. |
| - Test Report No.: 2017/D039-2 rev1.0 dated 26-07-2018. | - Test Report No.: 2022/D252 rev1.1 dated 19-09-2022. |
| - Test Report No.: 2017/D054 rev1.0 dated 26-07-2018. | - Test Report No.: 2022/D283 rev1.1 dated 17-10-2022. |
| - Test Report No.: 2017/D055 rev1.0 dated 26-07-2018. | - Test Report No.: 2021/D137 rev1.1 dated 20-09-2022. |
| - Test Report No.: 2017/D097 rev1.0 dated 26-07-2018. | - Test Report No.: 2021/D165 rev1.1 dated 14-10-2022. |
| - Test Report No.: 2017/D117 rev1.0 dated 26-07-2018. | - Test Report No.: 2022/D220 rev1.1 dated 21-09-2022. |
| - Test Report No.: 2017/D143 rev1.0 dated 26-07-2018. | - Test Report No.: 2021/D331 rev1.1 dated 22-09-2022. |
| - Test Report No.: 2017/D143-2 rev1.0 dated 26-07-2018. | - Test Report No.: 2022/D271 rev1.1 dated 17-10-2022. |
| - Test Report No.: 2017/D143-3 rev1.0 dated 26-07-2018. | - Test Report No.: 2021/D127 rev1.1 dated 19-10-2022. |
| - Test Report No.: 2017/D159 rev1.0 dated 26-07-2018. | - Test Report No.: 2022/D191 rev1.1 dated 24-10-2022. |
| - Test Report No.: 2017/D163 rev1.0 dated 26-07-2018. | - Test Report No.: 2021/D145 rev1.1 dated 22-09-2022. |
| - Test Report No.: 2017/D164 rev1.0 dated 26-07-2018. | - Test Report No.: 2021/D123 rev1.1 dated 12-10-2022. |
| - Test Report No.: 2017/D166 rev1.0 dated 26-07-2018. | - Test Report No.: 2020/D124 rev1.1 dated 20-10-2022. |
| - Test Report No.: 2017/D167 rev1.0 dated 26-07-2018. | - Test Report No.: 2021/D126 rev1.1 dated 23-09-2022. |
| - Test Report No.: 2017/D168 rev1.0 dated 26-07-2018. | - Test Report No.: 2022/D070 rev1.1 dated 23-09-2022. |
| - Test Report No.: 2017/D170 rev1.0 dated 26-07-2018. | - Test Report No.: 2021/D141 rev1.1 dated 23-09-2022. |
| - Test Report No.: 2017/D178 rev1.0 dated 26-07-2018. | - Test Report No.: 2021/D198 rev1.1 dated 23-09-2022. |
| - Test Report No.: 2017/D219 rev1.0 dated 26-07-2018. | - Test Report No.: 2021/D331-2 rev1.1 dated 22-09-2022. |
| - Test Report No.: 2017/D224 rev1.0 dated 26-07-2018. | - Test Report No.: 2022/D218 rev1.1 dated 21-10-2022. |
| - Test Report No.: 2017/D227 rev1.0 dated 26-07-2018. | - Test Report No.: 2017/D143-3 rev1.0 dated 26-07-2018. |
| - Test Report No.: 2017/D232 rev1.0 dated 26-07-2018. | - Test Report No.: 2017/D039 rev1.0 dated 26-07-2018. |
| - Test Report No.: 2017/D234 rev1.0 dated 26-07-2018. | - Test Report No.: 2017/D232 rev1.0 dated 26-07-2018. |
| - Test Report No.: 2017/D239 rev1.0 dated 26-07-2018. | - Test Report No.: 2017/D278 rev1.0 dated 26-07-2018. |
| - Test Report No.: 2017/D241 rev1.0 dated 26-07-2018. | - Test Report No.: 2017/D227 rev1.0 dated 26-07-2018. |
| - Test Report No.: 2017/D243 rev1.0 dated 26-07-2018. | - Test Report No.: 2017/D039-2 rev1.0 dated 26-07-2018. |
| - Test Report No.: 2017/D245 rev1.0 dated 26-07-2018. | - Test Report No.: 2017/D168 rev1.0 dated 26-07-2018. |
| - Test Report No.: 2017/D254 rev1.0 dated 26-07-2018. | - Test Report No.: 2017/D166 rev1.0 dated 26-07-2018. |
| - Test Report No.: 2017/D278 rev1.0 dated 26-07-2018. | - Test Report No.: 2017/D245 rev1.0 dated 26-07-2018. |
| - Test Report No.: 2017/D345 rev1.0 dated 26-07-2018. | - Test Report No.: 2017/D143-2 rev1.0 dated 26-07-2018. |
| | - Test Report No.: 2017/D254 rev1.0 dated 26-07-2018. |
| | - Test Report No.: 2017/D163 rev1.0 dated 26-07-2018. |

**4. APPLICATION/LIMITATION:**

According to BUREAU VERITAS Rules for the Classification of Steel Ships and IEC 60092 Series.

**5. PRODUCTION SURVEY REQUIREMENTS:**

5.1 - The above products are to be supplied by **INDUSTRIA LOMBARDA MATERIALE ELETTRICO I.L.M.E. SpA** in accordance with the type described in this certificate.

5.2 - This type of product is within the category DBV of Bureau Veritas Rule Note NR320.

**6. MARKING OF PRODUCT:**

-According to manufacturer's specifications.

**7. OTHERS:**

7.1 - It is **INDUSTRIA LOMBARDA MATERIALE ELETTRICO I.L.M.E. SpA**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 53681/A0 BV issued by the Society.

***** END OF CERTIFICATE *****