



RAILWAY

ACCORDING TO EN-45545



RAILWAY APPLICATION
Self-Declaration of Conformity

CMM/EMM SERIES

The CMM and EMM connectors tested are measured under EN45545-2+A1-2015-2 standard and required test procedures

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- We declare the products involved :
 - **CMM Families**
 - **EMM Families**
- Have been tested according to the following items of the EN45545-2+A1-2015-2 standard.
See Auto Declaration Annex
- And comply with the level of performance required, provided that the product is applied for its intended use and conforms to the specifications of the manufacturer, and that the installation conforms to the relevant standards.

Please refer to the Annex herewith: List of QUALIFICATION TESTS “EN45545-2+A1-2015-2” for Reports numbers, titles and test results (specification data).

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Written by: JAGHMIM Adnane (Laboratory)

Approved by: CHIFFARD Claude (Product manager)

Signature and stamp of the Company:

ANNEX - List of QUALIFICATION TESTS “EN45545-2+A1-2015-2”

Object tested:	CMM Insulator
Composition:	PPS (Polyphenylene sulfide) 30% Glass filled
Voluminal mass:	1560 kg/m ³
Color:	Black
UL94:	V0
Classification:	R23HL2, R24HL3, R25HL3, R26HL3

NICOMATIC CMM Connectors EN45545-2 Compliance

Requirement set used for	Test Method & Reference	Testing for (Unit)	Maximum / Minimum	Thresholds			NICOMATIC Results	Conclusion
				HL1	HL2	HL3		
R23	T01 EN ISO 4589-2: OI	Oxygen Content (%)	Minimum	28	28	30	53 Meets and/or exceeds HL3 minimum threshold	HL2
	T10.03 EN ISO 5659-3 25kWm-2	Smoke Density (DS max. dimensionless)	Maximum	-	600	300	3 Meets and/or exceeds HL3 minimum threshold	
	T12 NF X70-100-1 and -2, 600° C	Smoke Toxicity (CITNLP dimensionless)	Maximum	-	1.8	1.5	1.53 Meets HL2 minimum threshold	
R24	T01 EN ISO 4589-2: OI	Oxygen Content (%)	Minimum	28	28	30	53 Meets and/or exceeds HL3 minimum threshold	HL3
R25	T01 EN 60695-2-11	Glow wire temperature (°C)	Minimum	850	850	850	850 Meets and/or exceeds HL3 minimum threshold	HL3
R26	T01 EN 60695-11-10	Vertical small flame	Minimum	V0	V0	V0	V0 Meets and/or exceeds HL3 minimum threshold	HL3

Object tested: EMM Insulator
 Composition: LCP (Liquid crystal polymer) 30% Glass filled
 Voluminal mass: 1610 kg/m3
 Color: Black
 UL94: V0
 Classification: R22HL3, R23HL3, R24HL3, R25HL3, R26HL3

NICOMATIC EMM Connectors EN45545-2 Compliance

Requirement set used for	Test Method & Reference	Testing for (Unit)	Maximum / Minimum	Thresholds			NICOMATIC Results	Conclusion
				HL1	HL2	HL3		
R22	T01 EN ISO 4589-2: OI	Oxygen Content (%)	Minimum	28	28	30	48 Meets and/or exceeds HL3 minimum threshold	HL3
	T10.03 EN ISO 5659-2 25kWm-2	Smoke Density (DS max. dimensionless)	Maximum	600	300	150	14 Meets and/or exceeds HL3 minimum threshold	
	T12 NF X70-100-1 and -2, 600° C	Smoke Toxicity (CITNLP dimensionless)	Maximum	1.2	0.9	0.8	0.2 Meets and/or exceeds HL3 minimum threshold	
R23	T01 EN ISO 4589-2: OI	Oxygen Content (%)	Minimum	28	28	30	48 Meets and/or exceeds HL3 minimum threshold	HL3
	T10.03 EN ISO 5659-2 25kWm-2	Smoke Density (DS max. dimensionless)	Maximum	-	600	300	14 Meets and/or exceeds HL3 minimum threshold	
	T12 NF X70-100-1 and -2, 600° C	Smoke Toxicity (CITNLP dimensionless)	Maximum	-	1.8	1.5	0.2 -	
R24	T01 EN ISO 4589-2: OI	Oxygen Content (%)	Minimum	28	28	30	48 Meets and/or exceeds HL3 minimum threshold	HL3
R25	T01 EN 60695-2-11	Glow wire temperature (°C)	Minimum	850	850	850	850 Meets and/or exceeds HL3 minimum threshold	HL3
R26	T01 EN 60695-11-10	Vertical small flame	Minimum	V0	V0	V0	V0 Meets and/or exceeds HL3 minimum threshold	HL3