NIPPON KAIJI KYOKAI

Certificate of Type Test

Certificate No.
TA20272M

FOR EXPLOSION PROTECTED TYPE ELECTRICAL EQUIPMENT

APPLICANT:	CCG Cable Terminations Ltd, North Yorkshire, England
MANUFACTURER:	CCG Cable Terminations Ltd, Kempton Park, South Africa
PRODUCT:	Thread converters
TYPE NO.:	Adaptors (Female thread large than male thread) Reducers (Male thread larger than female thread)
TYPE TEST NO.:	20T606
PARTICULARS:	See the attached sheet
STANDARD:	IEC60079-0(2017), IEC60079-1(2014), IEC60079-7(2015), IEC60079-15(2010), IEC60079-31(2013)
DOCUMENTATION:	IECEx CML 16.0062X, AM016M016E to AM100M100E, RM020M016E to RM100M090E

THIS IS TO CERTIFY that the above mentioned product has been approved by the NIPPON KAIJI KYOKAI in accordance with the Society's type test requirements for electrical equipment and cables.

This certificate is valid until 31May 2025.

Issued at Tokyo on 1 June 2020.

T. Shimada
General Manager
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

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PARTICULARS:

Type: Adaptor, Reducer
Material: Brass (Marine Grade Electroless Nickel Plated™), Stainless Steel 316/316L
Gasket material: Standard HDPE or Extreme temp. PTFE
Note: The installer is to ensure that the materials are suitable for the installation environment. And manufacturer's application and assembly instructions are to be followed.

Protection levels: IEC Ex: Ex db I Mb / Ex eb I Mb / Ex db IIC Gb / Ex eb IIC Gb / Ex tb IIIC Db / Ex nR IIC

Conditions for safe:
- An IP rating of IP66/68 is maintained for units with parallel threads when used with the supplied washer and for units with tapered thread when thread sealant is conducted as indicated in IEC60079-14. Alternatively an IP65 rating is applicable.
- A service temperature range of between -20°C and +95°C (standard gasket) or -60°C to +160°C (extreme temp. gasket) is applicable if the gaskets are utilized to maintain an IP rating IP65/66/68 2m cont.
- A blanking element may not be installed on an Adaptor
- When the equipment with metric male thread and with the sealing washer fitted is intended for use / interface in threaded holes in a flameproof enclosure the applicable thread engagement must be achieved after the washer has been fitted. Thread engagement shall be at least five full threads.

Metric to metric adapter

Product code	Male metric thread "A"	Female metric thread "B"	Hex across flats Min "C"	Hex across corners Min "D"	Male thread length Min "E"	Female thread depth Min "F"	Hex length Max "G"
AM016M016	M16	M16	27.0	30.4	15.0	15.0	21.0
AM016M020	M16	M20	27.0	30.4	15.0	15.0	21.0
AM016M025	M16	M25	27.0	30.4	15.0	15.0	21.0
AM020M020	M20	M20	32.0	36.0	15.0	15.0	21.0
AM020M025	M20	M25	32.0	36.0	15.0	15.0	21.0
AM020M032	M20	M32	32.0	36.0	15.0	15.0	21.0
AM025M025	M25	M25	32.0	36.0	15.0	15.0	21.0
AM025M032	M25	M32	38.0	42.8	15.0	15.0	21.0
AM025M040	M25	M40	38.0	42.8	15.0	15.0	21.0
AM032M032	M32	M32	38.0	42.8	15.0	15.0	21.0
AM032M040	M32	M40	50.0	56.3	15.0	15.0	21.0
AM032M050	M32	M50	50.0	56.3	15.0	15.0	21.0
AM040M040	M40	M40	50.0	56.3	15.0	15.0	21.0
AM040M050	M40	M50	60.0	67.5	15.0	15.0	21.0
AM040M063	M40	M63	60.0	67.5	15.0	15.0	21.0
AM050M050	M50	M50	60.0	67.5	15.0	15.0	21.0
AM050M063	M50	M63	70.0	78.8	15.0	15.0	21.0
AM050M075	M50	M75	70.0	78.8	15.0	15.0	21.0
AM063M064	M63	M63	70.0	78.8	15.0	15.0	21.0
AM063M075	M63	M75	80.0	90.0	15.0	15.0	21.0
AM063M080	M63	M80	80.0	90.0	15.0	20.0	26.0
AM075M075	M75	M75	80.0	90.0	15.0	15.0	21.0
AM075M080	M75	M80	90.0	101.3	15.0	20.0	26.0

All dimensions are in mm.

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Metric to metric adapter

Product code	Male metric thread "A"	Female metric thread "B"	Hex across flats Min "C"	Hex across corners Min "D"	Male thread length Min "E"	Female thread depth Min "F"	Hex length Max "G"
AM075M090	M75	M90	90.0	101.3	15.0	20.0	26.0
AM080M080	M80	M80	96.0	108.0	20.0	20.0	26.0
AM080M090	M80	M90	96.0	108.0	20.0	20.0	26.0
AM080M100	M80	M100	96.0	108.0	20.0	20.0	26.0
AM090M090	M90	M90	96.0	108.0	20.0	20.0	26.0
AM090M100	M90	M100	111.0	124.9	20.0	20.0	26.0
AM100M100	M100	M100	111.0	124.9	20.0	20.0	26.0

All dimensions are in mm.

Metric to metric reducer

Product code	Male metric thread "A"	Female metric thread "B"	Hex across flats Min "C"	Hex across corners Min "D"	Male thread length Min "E"	Female thread depth Min "F"	Hex length Max "G"
RM020M016	M20	M16	27.0	30.4	15.0	15.0	6.0
RM025M016	M25	M16	32.0	36.0	15.0	15.0	6.0
RM025M020	M25	M20	32.0	36.0	15.0	15.0	6.0
RM032M016	M32	M16	38.0	42.8	15.0	15.0	6.0
RM032M020	M32	M20	38.0	42.8	15.0	15.0	6.0
RM032M025	M32	M25	38.0	42.8	15.0	15.0	6.0
RM040M016	M40	M16	47.0	52.9	15.0	15.0	6.0
RM040M020	M40	M20	47.0	52.9	15.0	15.0	6.0
RM040M025	M40	M25	47.0	52.9	15.0	15.0	6.0
RM040M032	M40	M32	47.0	52.9	15.0	15.0	6.0
RM050M016	M50	M16	55.0	61.9	15.0	15.0	6.0
RM050M020	M50	M20	55.0	61.9	15.0	15.0	6.0
RM050M025	M50	M25	55.0	61.9	15.0	15.0	6.0
RM050M032	M50	M32	55.0	61.9	15.0	15.0	6.0
RM050M040	M50	M40	55.0	61.9	15.0	15.0	6.0
RM063M016	M63	M16	70.0	78.8	15.0	15.0	6.0
RM063M020	M63	M20	70.0	78.8	15.0	15.0	6.0
RM063M025	M63	M25	70.0	78.8	15.0	15.0	6.0
RM063M032	M63	M32	70.0	78.8	15.0	15.0	6.0
RM063M040	M63	M40	70.0	78.8	15.0	15.0	6.0
RM063M050	M63	M50	70.0	78.8	15.0	15.0	6.0
RM075M016	M75	M16	80.0	90.0	15.0	15.0	6.0
RM075M020	M75	M20	80.0	90.0	15.0	15.0	6.0
RM075M025	M75	M25	80.0	90.0	15.0	15.0	6.0
RM075M032	M75	M32	80.0	90.0	15.0	15.0	6.0
RM075M040	M75	M40	80.0	90.0	15.0	15.0	6.0
RM075M050	M75	M50	80.0	90.0	15.0	15.0	6.0
RM075M063	M75	M63	80.0	90.0	15.0	15.0	6.0
RM080M016	M80	M16	85.0	95.6	20.0	15.0	6.0
RM080M020	M80	M20	85.0	95.6	20.0	15.0	6.0
RM080M025	M80	M25	85.0	95.6	20.0	15.0	6.0
RM080M032	M80	M32	85.0	95.6	20.0	15.0	6.0
RM080M040	M80	M40	85.0	95.6	20.0	15.0	6.0
RM080M050	M80	M50	85.0	95.6	20.0	15.0	6.0
RM080M063	M80	M63	85.0	95.6	20.0	15.0	6.0
RM080M075	M80	M75	85.0	95.6	20.0	15.0	6.0

All dimensions are in mm.

---------- To be continued ----------

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Metric to metric reducer

Product code	Male metric thread "A"	Female metric thread "B"	Hex across flats Min "C"	Hex across corners Min "D"	Male thread length Min "E"	Female thread depth Min "F"	Hex length Max "G"
RM090M016	M90	M16	96.0	108.0	20.0	15.0	6.0
RM090M020	M90	M20	96.0	108.0	20.0	15.0	6.0
RM090M025	M90	M25	96.0	108.0	20.0	15.0	6.0
RM090M032	M90	M32	96.0	108.0	20.0	15.0	6.0
RM090M040	M90	M40	96.0	108.0	20.0	15.0	6.0
RM090M050	M90	M50	96.0	108.0	20.0	15.0	6.0
RM090M063	M90	M63	96.0	108.0	20.0	15.0	6.0
RM090M075	M90	M75	96.0	108.0	20.0	15.0	6.0
RM090M080	M90	M80	96.0	108.0	20.0	20.0	6.0
RM100M016	M100	M16	111.0	124.9	20.0	15.0	6.0
RM100M020	M100	M20	111.0	124.9	20.0	15.0	6.0
RM100M025	M100	M25	111.0	124.9	20.0	15.0	6.0
RM100M032	M100	M32	111.0	124.9	20.0	15.0	6.0
RM100M040	M100	M40	111.0	124.9	20.0	15.0	6.0
RM100M050	M100	M50	111.0	124.9	20.0	15.0	6.0
RM100M063	M100	M63	111.0	124.9	20.0	15.0	6.0
RM100M075	M100	M75	111.0	124.9	20.0	15.0	6.0
RM100M080	M100	M80	111.0	124.9	20.0	20.0	6.0
RM100M090	M100	M90	111.0	124.9	20.0	20.0	6.0

All dimensions are in mm.

Product code structure

1st Character denotes the type, A = Adaptor R = Reducer	2nd Character denotes the male thread - Metric	3rd to 5th Character denotes the size of the male thread	6th Character denotes the female thread - Metric	7th to 9th Character denotes the size of female thread	10th Character denotes the classification - Ex (E)	Example Product code
A	M	040	M	063	E	AM040M063E

Thread converters selection chart

Male (metric) Size	Female (Metric) Size										
	M16	M20	M25	M32	M40	M50	M63	M75	M80	M90	M100
M16	A	A	A								
M20	R	A	A	A							
M25	R	R	A	A	A						
M32	R	R	R	A	A	A					
M40	R	R	R	R	A	A	A				
M50	R	R	R	R	R	A	A	A			
M63	R	R	R	R	R	R	A	A	A		
M75	R	R	R	R	R	R	R	A	A	A	
M80	R	R	R	R	R	R	R	R	A	A	A
M90	R	R	R	R	R	R	R	R	R	A	A
M100	R	R	R	R	R	R	R	R	R	R	A

A = Adaptor, R = Reducer

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