

Ceramic Oxide Fabricators
(AUST) PTY LTD



Extruded products

Revision 1.1, July 2019

Ceramic Oxide Fabricators (AUST) Pty Ltd
83 Wood Street, California Gully VIC 3556 Australia

Extruded products

1 Tubes



Tubes with an OD (outer diameter) \leq 12mm are available with closed ends, suitable for thermocouple sheaths.

Product number	OD (mm)	ID (mm)	Tolerances
E02.00X01.00T1-RS	2	1	2.0mm OD (± 0.2) x 1.0mm ID (± 0.1)
E03.00X01.50T1-RS	3	1.5	3.0mm OD (± 0.2) x 1.5mm ID (± 0.2)
E03.00X02.00T1-RS	3	2	3.0mm OD (± 0.2) x 2.0mm ID (± 0.2)
E03.20X01.42T1-RS	3.2	1.42	3.2mm OD (± 0.07) x 1.42mm ID (± 0.05)
E03.60X01.35T1-RS	3.6	1.35	3.6mm OD (+0.1/-0.05) x 1.35mm ID (± 0.05)
E03.60X01.10T1-RS	3.6	1.1	3.6mm OD (+0.15/-0.05) x 1.1mm ID (± 0.05)
E03.60X01.18T1-RS	3.6	1.18	3.6mm OD (+0.15/-0.05) x 1.18mm ID (± 0.05)
E04.00X02.00T1-RS	4	2	4.0mm OD (± 0.1) x 2.0mm ID (± 0.1)
E04.00X01.50T1-RS	4	1.5	4.0mm OD (+0.5/-0) x 1.5mm ID (± 0.05)
E04.00X01.80T1-RS	4	1.8	4.0mm OD (± 0.1) x 1.8mm ID (± 0.1)
E04.25X01.50T1-RS	4.25	1.5	4.25mm OD (± 0.1) x 1.5mm ID (± 0.05)
E04.25X01.80T1-RS	4.25	1.8	4.25mm OD (± 0.1) x 1.8mm ID (± 0.05)
E04.30X02.90T1-RS	4.3	2.9	4.3mm OD (+0.2/-0.1) x 2.9mm ID (± 0.05)
E04.32X01.64T1-RS †	4.32	1.64	4.32mm OD (+0.05/-0.15) x 1.64mm ID (± 0.05)
E04.40x01.74T1-RS	4.4	1.74	4.4mm OD (± 0.1) x 1.74mm ID (± 0.1)
E04.50x03.50T1-RS	4.5	3.5	4.5mm OD (± 0.15) x 3.5mm ID (± 0.15)
E04.70x03.40T1-RS	4.7	3.4	4.7mm OD (± 0.15) x 3.4mm ID (± 0.15)

Product number	OD (mm)	ID (mm)	Tolerances
E05.00X03.00T1-RS	5	3	5.0mm OD (± 0.15) x 3.0mm ID (± 0.15)
E05.05X02.05T1-RS	5.05	2.05	5.05mm OD (± 0.1) x 2.05mm ID (± 0.05)
E05.05X02.75T1-RS	5.05	2.75	5.05mm OD (± 0.1) x 2.75mm ID (± 0.05)
E05.40X04.10T1-RS	5.4	4.1	5.4mm OD (± 0.1) x 4.1mm ID (± 0.1)
E05.90X01.25T1-RS	5.9	1.25	5.9mm OD (+0/-0.2) x 1.25mm ID (+0.1/-0)
E06.00X03.00T1-RS	6	3	6.0mm OD (± 0.15) x 3.0mm ID (± 0.1)
E06.00X04.00T1-RS	6	4	6.0mm OD (± 0.2) x 4.0mm ID (± 0.2)
E06.10x01.50T1-RS †	6.1	1.5	6.1mm OD (± 0.1) x 1.5mm ID (± 0.05)
E06.40x03.10T1-RS	6.4	3.1	6.4mm OD (± 0.1) x 3.1mm ID (± 0.1)
E06.40x04.80T1-RS	6.4	4.8	6.4mm OD (± 0.1) x 4.8mm ID (± 0.05)
E06.60x00.80T1-RS	6.6	0.8	6.6mm OD (± 0.1) x 0.8mm ID (± 0.05)
E06.60x01.00T1-RS	6.6	1	6.6mm OD (± 0.15) x 1.0mm ID (± 0.05)
E06.50x01.00T1-Rs	6.5	1	6.5mm OD (± 0.15) x 1.0mm ID (± 0.05)
E06.50x01.20T1-RS	6.5	1.2	6.5mm OD (± 0.15) x 1.2mm ID (± 0.05)
E06.50x01.50T1-RS †	6.5	1.5	6.5mm OD (± 0.15) x 1.5mm ID (± 0.05)
E06.50x01.80T1-RS	6.5	1.8	6.5mm OD (± 0.15) x 1.8mm ID (± 0.05)
E06.50x02.00T1-RS	6.5	2	6.5mm OD (± 0.2) x 2mm ID (± 0.05)
E06.50x02.40T1-RS	6.5	2.4	6.5mm OD (± 0.15) x 2.4mm ID (± 0.05)
E06.50x02.90T1-RS	6.5	2.9	6.5mm OD (± 0.15) x 2.9mm ID (± 0.05)
E06.70x01.80T1-RS †	6.7	1.8	6.7mm OD (± 0.15) x 1.8mm ID (± 0.05)
E06.65x02.00T1-Rs	6.65	2	6.65mm OD (± 0.2) x 2.00mm ID (± 0.05)
E07.00x05.05T1-RS	7	5.05	7.0mm OD (± 0.2) x 5.05mm ID (± 0.2)
E07.60x05.65T1-RS	7.6	5.65	7.6mm OD (± 0.2) x 5.65mm ID (± 0.2)
E07.90x04.80T1-RS	7.9	4.8	7.9mm OD (± 0.13) x 4.8mm ID (± 0.13)
E08.00x05.05T1-RS	8	5.05	8.0mm OD (± 0.15) x 5.05mm ID (± 0.15)
E08.00x06.00T1-RS	8	6	8.0mm OD (± 0.15) x 6.0mm ID (± 0.15)
E09.00x05.00T1-RS †	9	5	9.0mm OD (± 0.2) x 5.0mm ID (± 0.2)
E09.00x05.40T1-RS	9	5.4	9.0mm OD (± 0.15) x 5.4mm ID (± 0.1)
E09.00x06.00T1-RS	9	6	9.0mm OD (± 0.3) x 6.0mm ID (± 0.3)
E09.50x04.80T1-RS	9.5	4.8	9.5mm OD (± 0.2) x 4.8mm ID (± 0.25)
E09.50x06.20T1-RS	9.5	6.2	9.5mm OD (± 0.2) x 6.2mm ID (± 0.15)
E09.70x04.80T1-RS	9.7	4.8	9.7mm OD (± 0.2) x 4.8mm ID (± 0.2)
E09.70x07.00T1-RS	9.7	7	9.7mm OD (± 0.3) x 7.0mm ID (± 0.3)
E10.00x06.00T1-RS	10	6	10.0mm OD (± 0.2) x 6.0mm ID (± 0.2)
E10.00x07.00T1-RS	10	7	10.0mm OD (± 0.3) x 7.0mm ID (± 0.3)
E10.40x07.70T1-RS	10.4	7.7	10.4mm OD (± 0.3) x 7.7mm ID (± 0.2)
E12.10x07.50T1-RS	12.1	7.5	12.1mm OD (± 0.3) x 7.5mm ID (± 0.2)
E12.00x08.40T1-RS	12	8.4	12.0mm OD (± 0.2) x 8.4mm ID (± 0.2)

Product number	OD (mm)	ID (mm)	Tolerances
E12.00x08.60T1-RS	12	8.6	12.0mm OD (± 0.25) x 8.6mm ID (± 0.2)
E12.40x07.80T1-RS	12.4	7.8	12.4mm OD (± 0.2) x 7.8mm ID (± 0.2)
E13.50x09.30T1-Rs	13.5	9.3	13.5mm OD (± 0.3) x 9.3mm ID (± 0.2)
E14.00x10.00T1-RS	14	10	14.0mm OD (± 0.3) x 10.0mm ID (± 0.25)
E15.00x10.00T1-RS	15	10	15.0mm OD (± 0.3) x 10.0mm ID (± 0.2)
E15.00x11.00T1-RS	15	11	15.0mm OD (± 0.3) x 11.0mm ID (± 0.3)
E15.20x11.10T1-RS	15.2	11.1	15.2mm OD (± 0.3) x 11.1mm ID (± 0.25)
E15.50x01.85T1-RS	15.5	1.85	15.5mm OD (± 0.3) x 1.85mm ID (± 0.1)
E16.00x11.30T1-RS	16	11.3	16.0mm OD (± 0.3) x 11.3mm ID (± 0.3)
E16.30x13.60T1-RS	16.3	13.6	16.3mm OD (+0.5/-0.1) x 13.6mm ID (+0.2/-0.4)
E16.50x14.00T1-RS	16.5	14	16.5mm OD (+0.5/-0.2) x 14.0mm ID (+0.2/-0.5)
E17.00x13.00T1-RS	17	13	17.0mm OD (± 0.4) x 13.0mm ID (± 0.3)
E17.30x12.70T1-RS	17.3	12.7	17.3mm OD (+0.3/-0.4) x 12.7mm ID (+0.3/-0.4)
E17.50x15.00T1-RS	17.5	15	17.5mm OD (+0.3/-0.4) x 15.0mm ID (+0.3/-0.4)
E17.80x10.70T1-RS	17.8	10.7	17.8mm OD (± 0.5) x 10.7mm ID (± 0.3)
E18.00x02.80T1-RS	18	2.8	18.0mm OD (± 0.5) x 2.8mm ID (± 0.1)
E18.00x14.00T1-RS	18	14	18.0mm OD (± 0.5) x 14.0mm ID (± 0.3)
E19.00x14.00T1-RS	19	14	19.0mm OD (+1/-0.5) x 14.0mm ID (+0.5/-1)
E20.00x15.00T1-RS	20	15	20.0mm OD (± 0.5) x 15.0mm ID (± 0.3)
E22.00x17.50T1-RS	22	17.5	22.0mm OD (± 0.5) x 17.5mm ID (± 0.5)
E24.00x19.00T1-RS	24	19	24.0mm OD (± 0.5) x 19.0mm ID (± 0.5)
E26.00x21.50T1-RS	26	21.5	26.0mm OD (± 0.5) x 21.5mm ID (± 0.5)
E27.40x19.70T1-RS	27.4	19.7	27.4mm OD (± 0.5) x 19.7mm ID (± 0.5)
E28.00x22.50T1-RS	28	22.5	28.0mm OD (± 0.5) x 22.5mm ID (± 0.5)
E29.50x24.50T1-RS	29.5	24.5	29.5mm OD (± 1) x 24.5mm ID (± 0.5)
E30.00x26.00T1-RS †	30	26	30mm OD (± 1) x 26mm ID (± 0.5)
E36.00x30.00T1-RS	36	30	36mm OD (± 1) x 30mm ID (± 1)
E46.00x40.00T1-RS *	46	40	46mm OD (± 2) x 40mm ID (± 2)
E50.00x40.00T1-RS *	50	40	50mm OD (± 2) x 40mm ID (± 2)
E52.00x42.00T1-RS *	52	42	52mm OD (± 2) x 42mm ID (± 2)
E60.00x50.00T1-RS*	60	50	60mm OD (± 2) x 50mm ID (± 2)
E61.00x51.00T1-RS *	61	51	61mm OD (± 2) x 51mm ID (± 2)
E70.00x60.00T1-RS *	70	60	70mm OD (± 2) x 60mm ID (± 2)
E74.00x63.00T1-RS *	74	63	74mm OD (± 2) x 63mm ID (± 2)
E80.00x70.00T1-RS*	80	70	80mm OD (± 2) x 70mm ID (± 2)
E84.00x75.00T1-RS *	84	75	84mm OD (± 2) x 75mm ID (± 2)

* Non-extruded furnace tubes

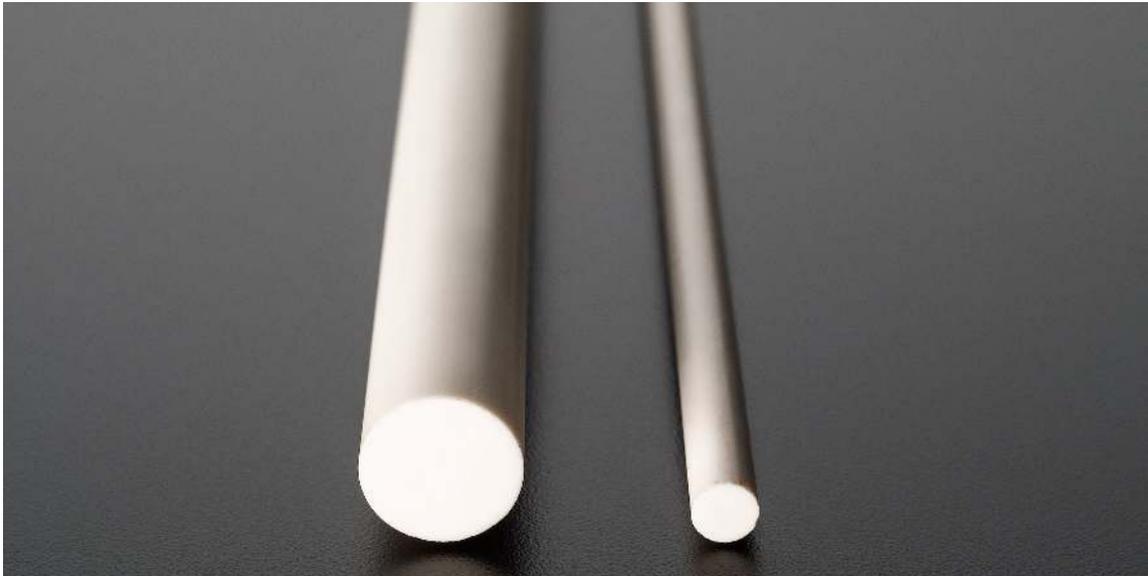
† Contact us for availability of this product

2 Multibore



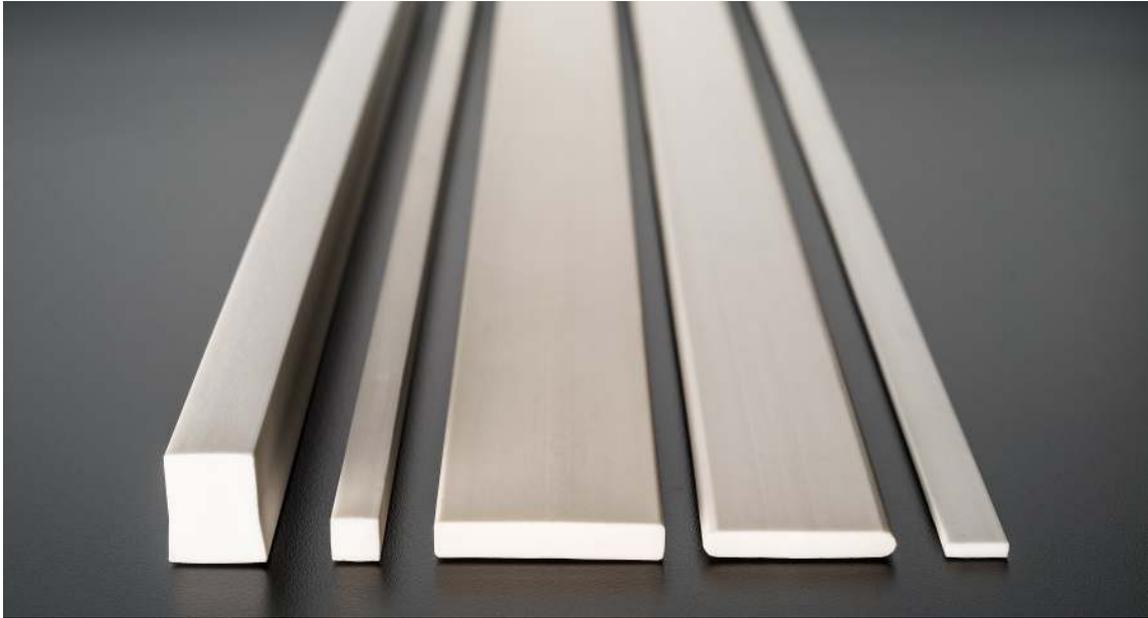
Product number	OD (mm)	ID (mm)	Tolerances
E02.00X00.60M2-RS	2	0.5	2.0mm OD (± 0.1) x 0.5mm ID (± 0.1) - 2 bore
E2.00x00.60M2-RS	2	0.6	2.0mm OD (± 0.1) x 0.6mm ID (± 0.1) - 2 bore
E02.25x00.60M4-RS	2.25	0.6	2.25mm OD (± 0.1) x 0.6mm ID (± 0.1) - 4 bore
E03.00x00.50M5-RS	3	0.5	3.0mm OD (± 0.1) x 0.5mm ID (± 0.1) - 5 bore
E03.00x00.85M2-RS	3	0.85	3.0mm OD (± 0.2) x 0.85mm ID (± 0.1) - 2 bore
E03.00x00.85M4-RS	3	0.85	3.0mm OD (± 0.2) x 0.85mm ID (± 0.1) - 4 bore
E04.005QUx00.45M5-RS	4	0.45	4.0mm OD (± 0.1) x 0.45mm ID (± 0.1) - 5 bore
E04.00x01.00M4-RS	4	1	4.0mm OD (± 0.1) x 1.0mm ID (± 0.05) - 4 bore
E04.00x01.20M2-RS	4	1.2	4.0mm OD (± 0.2) x 1.2mm ID ($+0.2/-0.1$) - 2 bore
E04.20x01.20M4-RS	4.2	1.2	4.2mm OD (± 0.2) x 1.2mm ID (± 0.2) - 4 bore
E04.30x00.85M3-RS	4.3	0.85	4.3mm OD (± 0.2) x 0.85mm ID (± 0.1) - 3 bore
E04.50x01.20M4-RS	4.5	1.2	4.5mm OD (± 0.2) x 1.2mm ID (± 0.1) - 4 bore
E04.50x01.25M4-RS	4.5	1.25	4.5mm OD (± 0.2) x 1.25mm ID (± 0.1) - 4 bore
E06.00x00.50M2-RS	6	0.5	6.0mm OD (± 0.2) x 0.5mm ID (± 0.1) - 2 bore
E07.00x01.00M4-RS	7	1	7.0mm OD (± 0.2) x 1.0mm ID (± 0.1) - 4 bore
E08.00x02.00M3-RS	8	2	8.0mm OD (± 0.2) x 2.0mm ID (± 0.2) - 3 bore
E08.00x02.50M4-RS	8	2.5	8.0mm OD (± 0.2) x 2.5mm ID (± 0.1) - 4 bore
E10.30x02.40M2-RS	10.3	2.4	10.3mm OD (± 0.3) x 2.4mm ID (± 0.1) - 2 bore

3 Rods



Product number	Tolerances
E00.85R0-RS	0.85mm OD (± 0.04) rod
E01.00R0-RS	1.0mm OD (± 0.1) rod
E01.30R0-RS	1.3mm OD (± 0.2) rod
E01.60R0-RS	1.6mm OD (± 0.1) rod
E02.00R0-RS	2.0mm OD (± 0.1) rod
E03.00R0-RS	3.0mm OD (± 0.1) rod
E04.00R0-RS	4.0mm OD (± 0.1) rod
E04.50R0-RS	4.5mm OD (± 0.1) rod
E05.00R0-RS	5.0mm OD (± 0.1) rod
E06.00R0-RS	6.0mm OD (± 0.2) rod
E07.00R0-RS	7.0mm OD (± 0.2) rod
E08.00R0-RS	8.0mm OD (± 0.2) rod
E09.00R0-RS	9.0mm OD (± 0.2) rod
E09.70R0-RS	9.7mm OD (± 0.2) rod
E10.00R0-RS	10.0mm OD (± 0.2) rod
E12.00R0-RS	12.0mm OD (± 0.5) rod
E12.50R0-RS	12.5mm OD (± 0.25) rod
E15.00R0-RS	15mm OD (± 0.5) rod
E17.00R0-RS	17mm OD (± 0.5) rod
E20.00R0-RS	20mm OD (± 0.5) rod

4 Bars



Product name	Tolerances
E02.00X08.20SCFB-RS	2.0mm (± 0.1) x 8.2mm (± 0.2) bar
E03.00X14.5RCFB-RS	3.0mm (± 0.1) x 14.5mm (± 0.5) bar
E03.20X03.20B-RS	3.2mm (± 0.2) x 3.2mm (± 0.2) square bar
E3.20X7.20B-RS	3.2mm (+0.4/-0) x 7.2mm (+0.4/-0) bar
E03.70X24.00RCFB-RS	3.7mm (± 0.2) x 24.0mm (± 1) bar
E04.00x17.00-RS	4.0mm (± 1) x 17.0mm (± 1) bar
E05.00X28.00RCFB-RS	5.0mm (± 0.2) x 28.0mm (± 0.8) bar
E06.10X06.10B-RS	6.1mm (± 0.2) x 6.1mm (± 0.2) square bar
E11.10X24.10RCFB-RS	11.1mm (± 0.3) x 24.1mm (± 0.5) bar

5 Custom extrusions



Contact us for information about custom extrusion.

6 Contact information

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7 Ceramic Oxide Fabricators (AUST) Pty Ltd one (1) year limited warranty

7.1 Introduction

This is a limited warranty from Ceramic Oxide Fabricators (AUST) Pty Ltd (as warrantor) that gives you specific legal rights.

You may also have other rights under specific consumer protection laws and regulations – if any (referred to in this warranty as “law”) of the country, state or province in which the Product was purchased (“your jurisdiction”). This warranty is governed by and subject to law and is not intended to and does not exclude, limit or suspend any rights you have under law. Some or all of the limitations or exclusions described below may not apply to you.

For the purposes of this warranty –

COF means Ceramic Oxide Fabricators (AUST) Pty Ltd (Australian Business Number 59 007 371 824).

Product means any COF – branded hardware product manufactured by or for COF and identified by the COF trademark, trade name, or logo affixed to it.

You means the original end-user and retail purchaser of a COF Product.

COF reserves the right to make changes at any time to:

1. Product hardware and software components and specifications; and
2. Terms and conditions governing Product use, service and repair; and
3. COF services.

Such changes are entirely at COF's discretion and may involve modification, upgrade, enhancement, replacement, deletion or abandonment.

7.2 Specific Warranty obligations

COF warrants that its Product is free from defects in materials and workmanship under normal use for a period of one (1) year from the date of your purchase (the “*Warranty Period*”).

Subject to law and the conditions set out below, if a Product is defective, COF will decide whether to:

1. Repair the Product at no charge, using new parts or parts that are equivalent to the new in performance or reliability; or
2. Exchange the Product with either a new product or one that is equivalent to new in performance, reliability and functionality; or
3. Refund the purchase price of the product,

provided that your claim is made in accordance with this warranty and is received by COF within the warranty period.

A replacement product or part assumes the remaining warranty of the original Product or ninety (90) days from the date of replacement or repair, whichever provides you with the longer coverage.

When a Product or part of a Product is exchanged, any replacement items become your property and the replaced item becomes COF's property. Parts provided by COF in fulfillment of its warranty obligation must only be used in the Product for which warranty service is claimed.

If COF agrees to refund the purchase price of a Product, the refund can only be paid after you have returned that Product to COF. All returned Products become COF's property.

COF does not make any representation that it will be able to repair or exchange any Product without loss of or corruption to programs and data.

7.3 Warranty exclusions and limitations

This limited warranty applied only to COF Products and does not apply to any non-COF hardware product or any software, even if packaged and sold with a COF product. Manufacturers, suppliers, or publishers, other than COF, may provide their own warranties to you, but COF, in so far as permitted by law, provides itself “as is”.

COF Limited Warranty

Software (including system software) and hardware distributed by COF with or without the COF brand name is not covered under this warranty. Refer to the licensing agreement accompanying such software for details of

your rights and obligations concerning its use.

COF is not responsible for damage arising from failure to properly follow instructions relating to the Product's use.

This warranty does not apply to:

1. consumable parts, such as batteries, unless damage has occurred due to a defect in materials or workmanship; or
2. cosmetic damage, including but not limited to scratches, dents, and worn material on ports; or
3. damage caused by use with non-COF products; or
4. damage caused by accident, abuse, misuse, or external causes (such as earthquake, fire or flood); or
5. damage caused by operating the product outside the permitted or intended uses described by COF; or
6. damage caused by service (including upgrades and expansions) performed by anyone who is not a representative of COF or a COF authorised service provider; or
7. modifications by someone else other than COF to alter Product functionality or capability without COF's written approval; or
8. any COF Product where its serial number has been removed or defaced.

7.4 Important!

Opening a hardware Product may cause damage; such damage is not covered by this warranty. Only COF or an authorised service provider should open and perform Product service.

To the extent permitted by law: (1) this warranty and your rights under it are exclusive and are in lieu of any other oral, written, statutory, express or implied warranties, remedies and conditions; and (2) COF disclaims all other warranties, including but not limited to warranties of merchantability and fitness for a particular purpose and warranties against hidden or latent defects. If COF cannot lawfully disclaim statutory or implied warranties then, to the extent permitted by law, all such warranties will be limited in the duration of the express warranty and to the repair or replacement service or refund as determined by

COF in its absolute discretion.

No COF reseller, agent, or employee is authorised to make any amendment, extension, or addition to this warranty.

If any term or condition of this warranty is held to be illegal or unenforceable, the legality of the enforceability of the remaining terms and conditions will not be affected or impaired.

Except as provided in this warranty and to the maximum extent permitted by law, COF is not responsible for direct, special, incidental or consequential damages resulting from any breach of the warranty or condition, or under any clause, category of head of claim, including but not limited to loss of use; loss of revenue; loss of actual or anticipated profits (including loss of profits on contracts); goodwill; loss of reputation; loss of damage to or corruption of data; any or indirect or consequential loss or damage howsoever caused including the replacement of equipment and property, and costs of recovering, programming or reproducing any program or data stored in or used with the COF Product and any failure to maintain the confidentiality of data stored on the COF product.

COF does not authorise use of and reliance on any COF Product in safety critical situations, where the failure of COF Product or its compromised performance or interrupted operation could cause or contribute to personal injury or death ("potentially life threatening situations" or "PLTS"). For the avoidance of doubt out of the arising use or misuse and operation of any of its Products in such circumstances.

COF may be prepared to assist you to undertake a risk management assessment and prepare a protocol for your use of COF Products in the context of the PLTS, but always on the basis that all such use (including misuse) remains entirely at your risk.

It is your responsibility to identify and comply with the law governing your use of the Product applicable in each jurisdiction in which the Product is to be used.

7.5 Obtaining Warranty Service

Before seeking warranty service, please first refer to COF's online help resources identified

in the Product documentation.

If the product is still not functioning properly, you should contact the COF representatives or, if applicable, a COF retail store, distributor or authorised service provider.

COF will determine whether the Product requires service, and if so, COF will advise you how, where and by whom the service will be performed.

It is important that you assist COF to diagnose issues with your Product and that you follow COF's warranty processes.

Service options, parts availability and response times vary according to the place in which service is requested. Please note that service options are subject to review and change by COF at any time and COF may restrict service to be performed in the place at which the Product was originally sold.

Upon receipt of the replacement Product or part, the original Product or part becomes the property of COF and you agree to properly follow instructions, including if required, arranging the return of the original Product or part to COF in a timely manner.

When providing service requiring the return of the original Product or part, COF may re-

quire a credit card authorisation as security for the retail price of the replacement Product or part and applicable shipping costs. If you follow COF's instructions, COF will cancel the credit card authorisation, and you will not be charged for the Product or part and shipping costs. If you fail to return the replaced Product or part as instructed, COF will charge your credit card for the authorised amount.

If you seek service in a country that is not the country of original purchase, you must comply with the relevant export requirements and be responsible for the payment of all duties, taxes, levies, fees and other charges including shipping and handling costs.

Where international service is available, COF may repair or exchange defective Products and parts with comparable Products or parts that comply with local law.

COF may require you provide proof of purchase details and or comply with registration or other requirements before providing warranty service,

COF will collect, maintain and use your information in accordance with COF's privacy policy.