

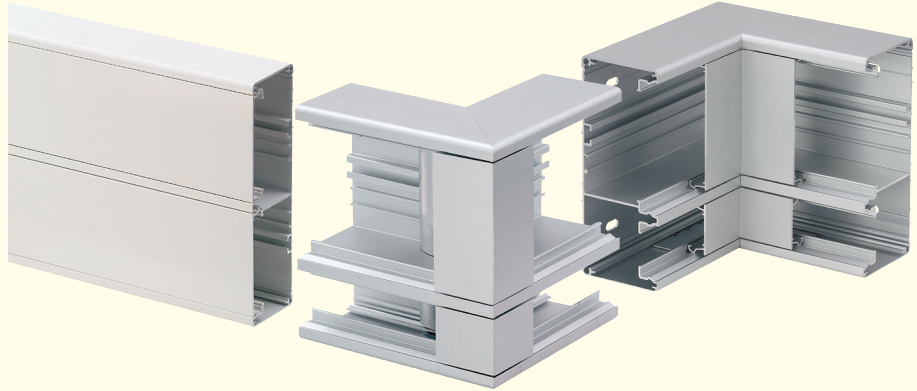
## Data Trunking System

### Standards and approvals

The Axim aluminium trunking system conforms to the requirements of BS EN 50085-1: 2005. Cable Trunking Systems and Cable Ducting Systems for electrical installations. Part 1 General requirements.

### Features

- Three unique profiles with maximum data capacity
- Total physical and visual integration with the Edge™ range of MK wiring accessories
- Pre-punched trunking bases speed installation
- Pre-punched divider on 2-compartment profiles allows easy access to mounting boxes
- Radius inserts for data cable compatibility
- Made from 100% aluminium, including fittings anodised as standard



### Description

Axim is an elegant, sleek aluminium trunking system for skirting and dado applications. It is designed to combine the superior appearance of aluminium, the robust practicality of an all-metal system and ease of installation. Pre-punched bases, compartment divider knockouts and bend radii simplify fixing and wiring. Axim has been designed to be compatible with all MK wiring accessories. With its bold lines and faultless finish, Axim is the ideal choice for commercial offices, schools, colleges and hospitals where strength and functionality are paramount.

### Technical specification

#### IEE Wiring Regulations

All products are designed and manufactured to allow installation to comply with BS 7671: 2008.

#### Material

Aluminium AW 6060.

Complying with BS EN 573 and BS EN 755.

#### Quality Assurance

The system is manufactured to BS EN ISO 9002.

#### Earth Continuity

The system makes provision for earth bonding where required in accordance with BS 7671: 2008.

#### EMC

Provides a screen for computer service cables.

#### Special Coupler Connector

Unique, spring steel, push fit metal connectors that can provide earth bonding between trunking carriers if fitted correctly.

#### Impact Classification

Metal components will withstand "heavy" impact as defined in EN 50085-1.

#### Thermal Properties

Min/Max installation and application temperature  $-5^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .

Coefficient of linear expansion  $23 \times 10^{-6}$  per  $^{\circ}\text{C}$ .

1mm/m for  $40^{\circ}\text{C}$  rise.

#### Resistivity

Max ( $20^{\circ}\text{C}$ )  $0.03 \Omega \text{ mm}^2/\text{m}$ .

Conductivity ( $20^{\circ}\text{C}$ ) 55% IACS.

#### Maintenance

Aluminium alloys require little or no maintenance to retain their original mechanical properties. Anodised surfaces are resistant to staining but nevertheless benefit from a regular wipe with a soapy damp cloth (neutral 5 to 7 ph value).

#### Colours

Aluminium – Anodised finish thickness 5 – 10 micron.

Also, choices of over 180 RAL paint colours on special orders (subject to minimum order value).

#### Ingress Protection

Rated at IP4X if used in conjunction with coupler covers and pins.

Standard assembly rated to IP2X.

#### Chemical Properties

Corrosion only occurs, to any extent when the ph value is less than 3, or greater than 9.

#### Biological

The trunking system is resistant to vermin and termites.

#### CE Marking

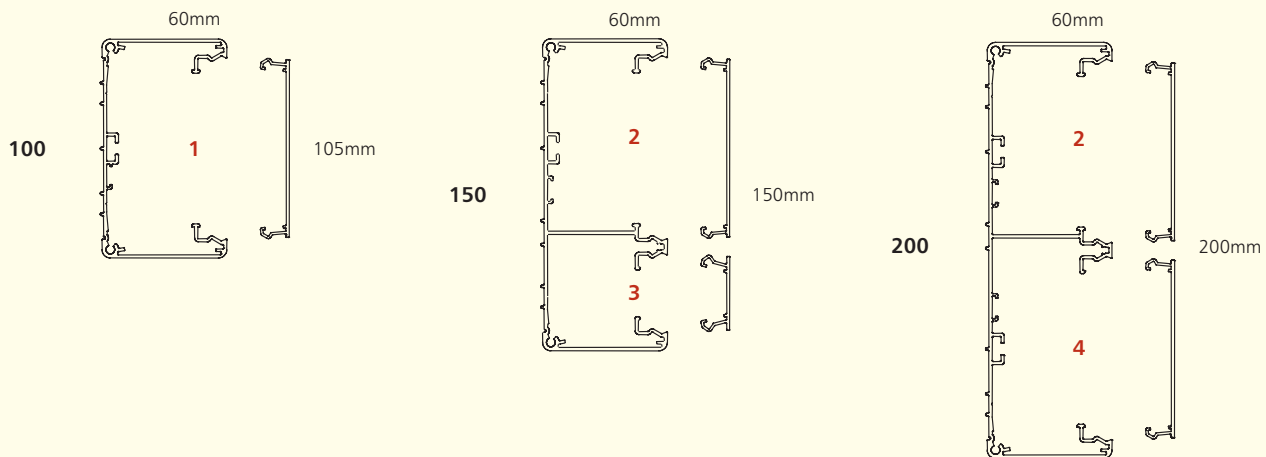
The products within this range are CE marked and conform to the LV directive.

## Data Trunking System

### Profiles

Compartment CSA mm<sup>2</sup>

- 1 = 5506
- 2 = 4943
- 3 = 2795
- 4 = 5585

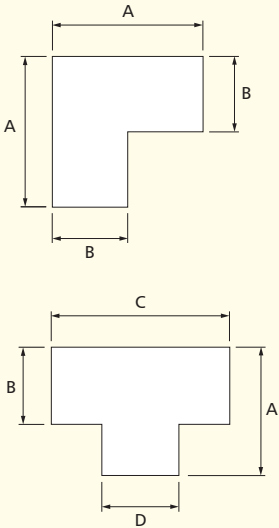


### CABLE CAPACITY

			Profile 100 (105 x 60mm)		Profile 150 (150 x 60mm)		Profile 200 (200 x 60mm)		Profile 200 (200 x 60mm) with 35mm deep box											
			Compartment 2	Compartment 3	Compartment 2	Compartment 4	Compartment 2	Compartment 4												
			<b>Full Term CSA (mm<sup>2</sup>)</b>																	
			5506	2783	4943	2795	2162	4943	5585	2162	2859									
<b>Type of</b>	<b>Size</b>	<b>Cable</b>	<b>Term at 45% fill (mm<sup>2</sup>)</b>																	
<b>conductor</b>	<b>factor</b>		2477	1252	2224	1257	972	2224	2513	972	1286									
<b>Power cables</b>			<b>Number of cables at 45% fill</b>																	
	1.5mm <sup>2</sup>	8.6	288	145	258	146	113	258	292	113	149									
PVC	2.5mm <sup>2</sup>	12.6	196	99	176	99	77	176	199	77	102									
stranded	4mm <sup>2</sup>	16.6	149	75	133	75	58	133	151	58	77									
	6mm <sup>2</sup>	21.2	116	59	104	59	45	104	118	45	60									
<b>Data cables</b>			<b>Number of cables at 45% fill (a) and full capacity (b)</b>																	
			a	b	a	b	a	b	a	b	a	b	a	b	a	b	a	b		
Cat5E UTP	5.5mm dia.	30.2	82	182	41	92	73	163	41	92	32	71	73	163	83	184	32	71	42	94
Cat5E STP	6.0mm dia.	36.0	68	152	34	77	61	137	34	77	27	60	61	137	69	155	27	60	35	79
Cat6 UTP	6.5mm dia.	42.2	58	130	29	65	52	117	29	66	23	51	52	117	59	132	23	51	30	67
Cat6 STP	7.0mm dia.	49.0	50	112	25	56	45	100	25	57	19	44	45	100	51	113	19	44	26	58

## Data Trunking System

### Flat angles and tees



FABRICATED ANGLES AND TEES DIMENSIONS (mm)

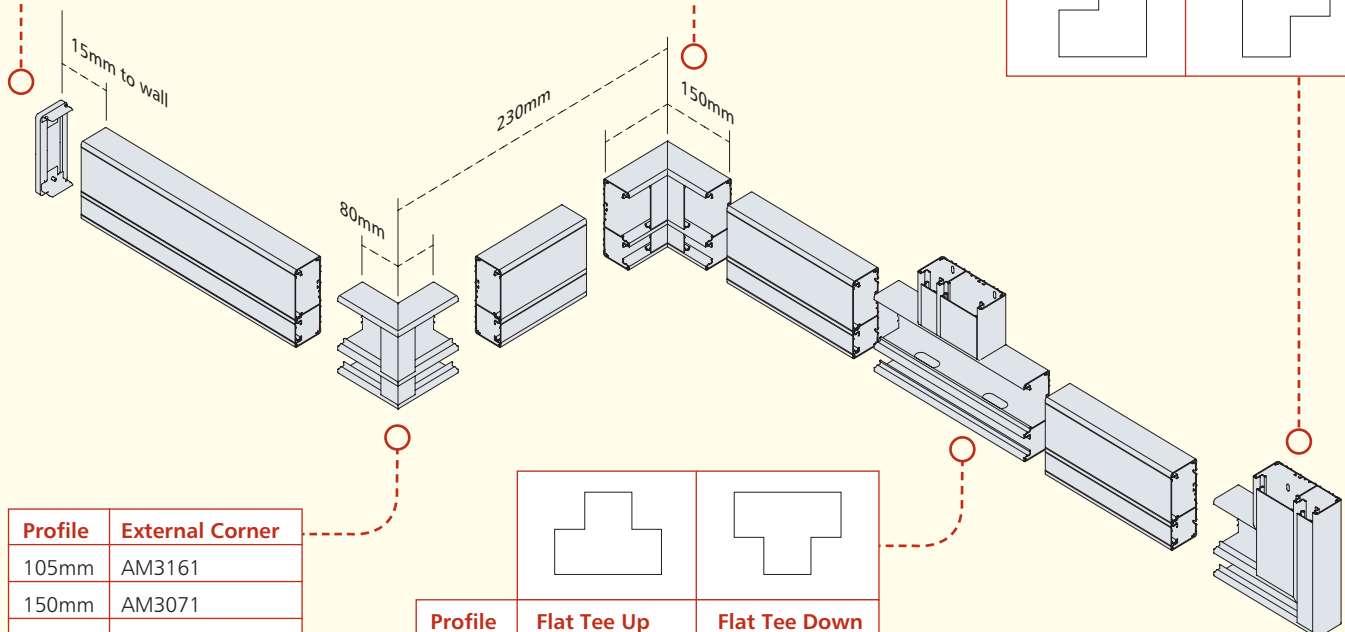
LIST NO	DESCRIPTION	A	B	C	D
AM3091	105mm flat angle	195mm	105mm		
AM3101	150mm flat angle (up)	240mm	150mm		
AM3111	150mm flat angle (down)	240mm	150mm		
AM3121	200mm flat angle	290mm	200mm		
AM3131	105mm flat tee	201mm	105mm	300mm	105mm
AM3141	150mm flat tee (up)	248mm	150mm	350mm	150mm
AM3151	150mm flat tee (down)	248mm	150mm	350mm	150mm
AM3161	200mm flat tee	296mm	200mm	400mm	200mm

### Component selection guide

Profile	End Cap
105mm	AM3171
150mm	AM3181
200mm	AM3191

Profile	Internal Corner
105mm	AM3031
150mm	AM3041
200mm	AM3051

Profile	Flat Angle Up	Flat Angle Down
105mm	AM3091	AM3091
150mm	AM3101	AM3111
200mm	AM3121	AM3121



Profile	External Corner
105mm	AM3161
150mm	AM3071
200mm	AM3081

Profile	Flat Tee Up	Flat Tee Down
105mm	AM3131	AM3131
150mm	AM3141	AM3151
200mm	AM3161	AM3161