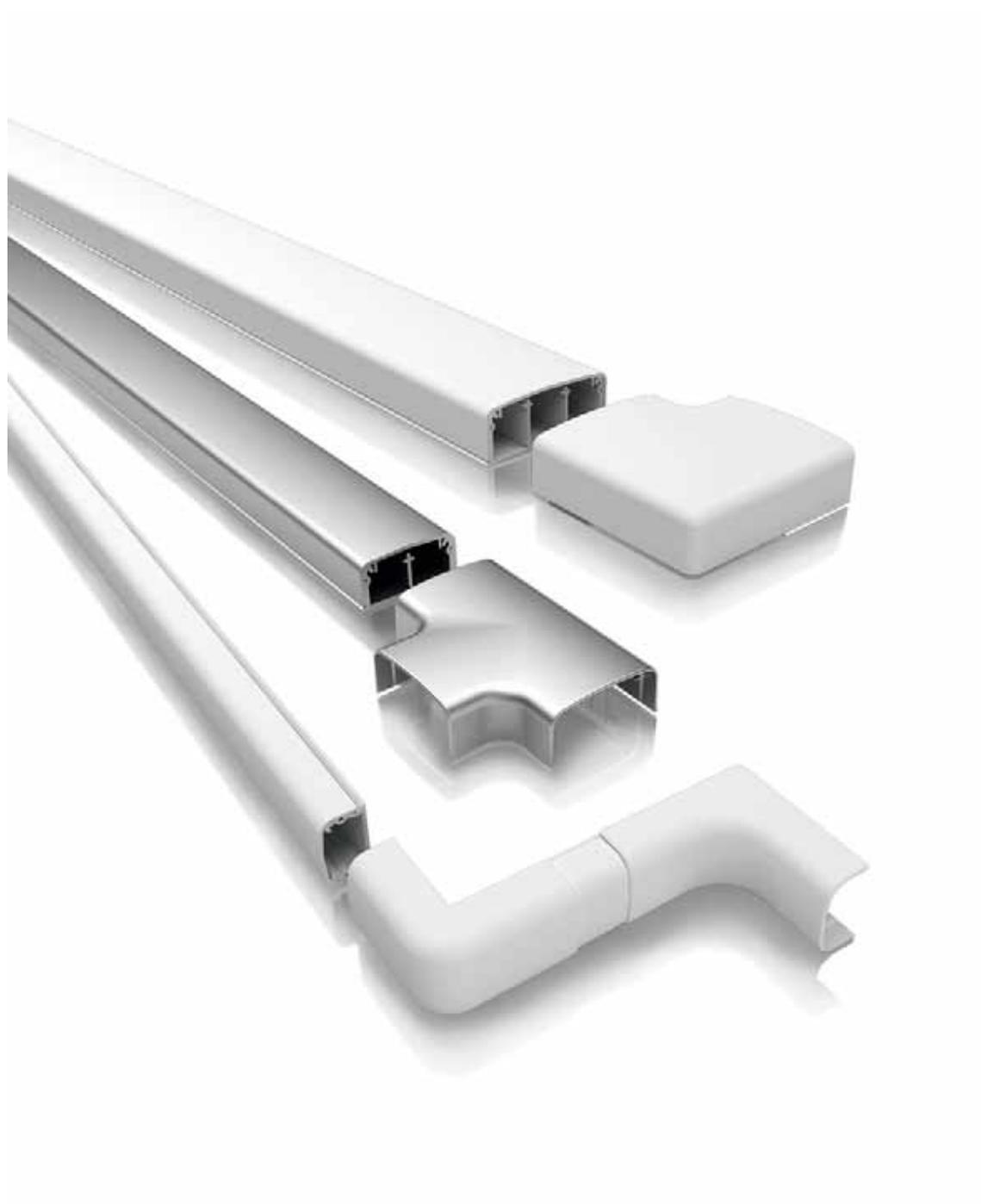OptiLine Mini-trunking

Designed, safe and flexible

Product catalogue 2010

Schneider Electric

New Mini-trunking offer

- Wide range
- PVC
- Halogen-free plastics
- Aluminium
- IP40
- Tamper proof
- Impact resistant

Now in

Schneider Electric brand

>

OptiLine Mini-trunking

OptiLine mini-trunking is a newly-developed trunking system with a smooth design.The range is wide, with six sizes of trunking in 17 variants and a multitude of accessories. Made of aluminium, PVC or halogen-free plastic. One-, two- and three-compartment trunking can be combined by using a branching piece.

OptiLine Mini-trunking also sets a safer level for mini-trunking, since the cover cannot be removed without tools. This makes OptiLine Mini-trunking exceptionally well suited for schools and staircases, for instance.

Smoothly shaped and flexible

The new OptiLine mini-trunking system is based on more than 40 years' experience of developing trunking for electrical installations. The aim was to develop an attractive, functional trunking to meet many different needs, often for small installations. The trunking would also need to be easy to install and extend, to provide greater electrical safety and be more tamper-resistant that any previous trunking. In addition to all this it would have to be attractive to look at.

The result is a smoothly shaped trunking in many sizes and variants, and with accessories which gives flexible and safe installations. For more exposed environments, or where a designer look is important, OptiLine mini-trunking is also available in aluminium. Both natural anodised and painted white.


Environment-friendly

OptiLine mini-trunking is available in three materials; aluminium, lead and cad-mium-free PVC or halo-gen-free plastic (PC/ABS). Accessories, like corners and end pieces, are made of halogen-free plastic (PC/ABS).

Highly impact-resistant

All mini-trunking is highly impact-resistant, thanks to its design and generous material thickness. The aluminium ver-sion of OptiLine offers extra strong impact-resistance. In many cases, this is a secure substitute for unattractive sheet steel protection.

Both outdoors and indoors

Thanks to its sealed, stable design, OptiLine mini-trunking achieves degree of protection IP40. This makes OptiLine mini-trunking suitable for installation both outdoors and indoors. Both the plastic and the aluminium trunking offer many years of resistance to UV radiation, heat and cold. The plastic trunk-ing is also approved for single-insulated wire outdoors.
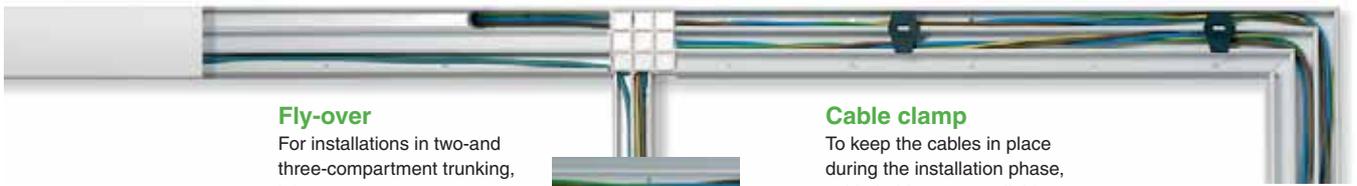
Fly-over

For installations in two-and three-compartment trunking, it becomes necessary to separate power and data cables where they cross each other.

For this, the fly-over is used at branch points. The fly-over can be adapted as necessary by easily breaking off unwanted partitions.

Cable clamp

To keep the cables in place during the installation phase, cable holders are available as accessories.

They are easy to snap-fit and can remain in place when the cover is fitted.

Branching piece

Create a combined trunking installation by running the feed in two- or three-compartment PVC trunking and then connecting, for example, aluminium trunking where extra impact resistance or a more exclusive impression is needed. The practical branching piece makes changes of dimension simple.
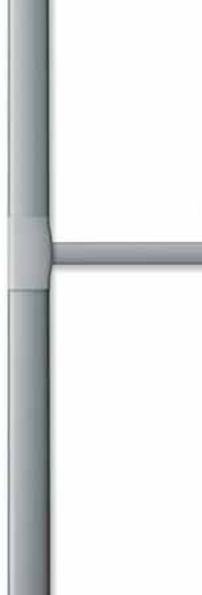
Cable separation

Mixed installations in which power and data wiring is run to the same point are becoming increasingly common. This is why OptiLine mini-trunking is available with several compartments, so that the entire installation can be accommodated in one trunking. Having more than one compartment also makes it possible to run long feeds in the same trunking.

Single-insulated wire

For single-insulated wire to be installed in mini-trunking, the trunking must satisfy stringent electrical safety requirements. The plastic version of OptiLine mini-trunking meets these requirements.

Among the advantages of single-insulated wire are that it is easy to install and that more wires can be fitted into the trunking. It is also an advantage at transitions to or from a flush installation.

Screws or adhesive tape

All OptiLine mini-trunking has pre-punched holes at frequent intervals to make installation easier.

For installations without power wiring, there is also OptiLine mini-trunking with adhesive tape fixing. On suitable surfaces, the speed of this method of installation is unsurpassed.
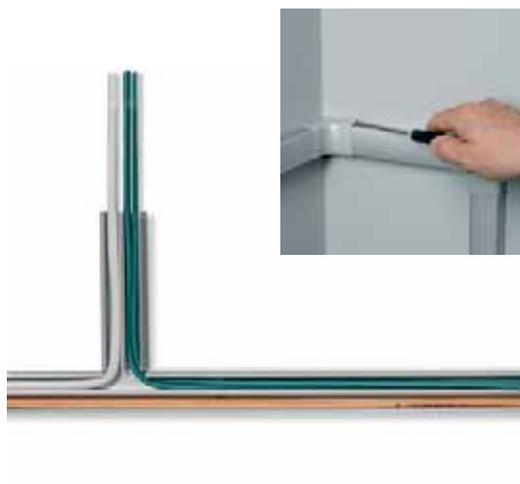
Tamper-proof

The trunking and all its accessories use snap fitting for quick, simple installation. To remove the cover and accessories without the right tools is far more difficult.

This is a design feature that protects the installation from tampering, especially recommended in public areas or for fibre optic and broadband cables.

Partition walls

The partitions in two- and three-compartment plastic trunking can be easily broken off with one's fingers. First simply cross-cut the partition to the correct length with side cutters.

The trunking can be cut by hand with simple tools – no need for precision. The accessories are very forgiving!

Mini-trunking

	Type	Colour	Dimensions A/B/C (mm)	Qty per package	Ref. No.
	PVC mini-trunking				
	Mini-trunking including base profile with one, two or three compartments, and snap-fitted cover. Partition walls can be removed. With pre-punched mounting holes at 100 mm centres. Suitable for power and low voltage cables. Approved for single-insulated cable if non-metallic fastener is used. Supplied in 2.1 m lengths. Material: PVC.				
P83321	With one compartment	White RAL 9010	20/12/2100	42 m	ISM14100
P83323	With two compartments	White RAL 9010	30/12/2100	42 m	ISM14200
P83322	With one compartment	White RAL 9010	20/18/2100	42 m	ISM14300
P83324	With two compartments	White RAL 9010	35/18/2100	42 m	ISM14400
P83325	With two compartments	White RAL 9010	45/18/2100	42 m	ISM14500
P83326	With three compartments	White RAL 9010	60/25/2100	21 m	ISM14600
	PVC mini-trunking with bonding tape				
	Mini-trunking including base profile with one compartment and snap-fitted cover. With pre-punched mounting holes at 100 mm centres. Provided with bonding tape on the back of the base profile. Not approved for power cabling if the trunking is only fixed to the wall by the tape. If the fixing by tape is combined with screw-fixing, power cables may also be installed. Approved for single-insulated cable if non-metallic fastener is used for the combined fixing. Supplied in 2.1 m lengths. Material: PVC.				
P83321	With one compartment	White RAL 9010	20/12/2100	42 m	ISM14125
B83322	With one compartment	White RAL 9010	20/18/2100	42 m	ISM14325

Mini-trunking

	Type	Colour	Dimensions A/B/C (mm)	Qty per package	Ref. No.
PC/ABS (halogen-free) mini-trunking					
Mini-trunking including base profile with one, two or three compartments and snap-fitted cover. Partition walls can be removed. With pre-punched mounting holes at 100 mm centres. Suitable for power and low voltage cables. Approved for single-insulated cable if non-metallic fastener is used. Supplied in 2.1 m lengths. Material: PC/ABS.					
P83321	With one compartment	White RAL 9010	20/12/2100	42 m	ISM14130
P83322	With one compartment	White RAL 9010	20/18/2100	42 m	ISM14330
P83324	With two compartments	White RAL 9010	35/18/2100	42 m	ISM14430
P83326	With three compartments	White RAL 9010	60/25/2100	21 m	ISM14630
PC/ABS (halogen-free) mini-trunking with bonding tape					
Mini-trunking including base profile with one compartment and snap-fitted cover. Partition walls can be removed. With pre-punched mounting holes at 100 mm centres. Provided with bonding tape on the back of the base profile. Not approved for power cabling if the trunking is only fixed to the wall by the tape. If the fixing by tape is combined with screw-fixing, power cables may be installed. Approved for single-insulated cable if non-metallic fastener is used for the combined fixing. Supplied in 2.1 m lengths. Material: PC/ABS.					
P83321	With one compartment	White RAL 9010	20/12/2100	42 m	ISM14135
P83322	With one compartment	White RAL 9010	20/18/2100	42 m	ISM14335
Aluminium mini-trunking					
Mini-trunking including base profile with one or two compartments and snap-fitted cover. With pre-punched mounting holes at 400 mm centres. Suitable for power and low voltage cables. Supplied in 2.1 m lengths (Please note that the base unit for aluminium mini-trunking is pcs). Material: Aluminium, natural anodized or powder coated white.					
P83318	With one compartment	Anodized White RAL 9010	20/12/2100	10	ISM14150 ISM14170
P83319	With one compartment	Anodized White RAL 9010	20/18/2100	10	ISM14350 ISM14370
P83320	With two compartments	Anodized White RAL 9010	35/18/2100	10	ISM14450 ISM14470

Accessories

Type	Colour	Dimensions A/B/C (mm)	Qty per package	Ref. No.
Internal corner				
Internal corner to be snap-fitted onto the mini-trunking base. Material: PC/ABS.				
For 12x20 mini-trunking	White RAL 9010 Alu metallic	20/40/40	10	ISM14101 ISM14151
For 12x30 mini-trunking	White RAL 9010	32/40/40	10	ISM14201
For 18x20 mini-trunking	White RAL 9010 Alu metallic	20/45/45	10	ISM14301 ISM14351
For 18x35 mini-trunking	White RAL 9010 Alu metallic	37/45/45	10	ISM14401 ISM14451
For 18x45 mini-trunking	White RAL 9010	47/45/45	10	ISM14501
For 25x60 mini-trunking	White RAL 9010	62/53/53	10	ISM14601
External corner				
External corner to be snap-fitted onto the mini-trunking base. Material: PC/ABS.				
For 12x20 mini-trunking	White RAL 9010 Alu metallic	22/36/36	10	ISM14102 ISM14152
For 12x30 mini-trunking	White RAL 9010	32/36/36	10	ISM14202
For 18x20 mini-trunking	White RAL 9010 Alu metallic	22/42/42	10	ISM14302 ISM14352
For 18x35 mini-trunking	White RAL 9010 Alu metallic	37/42/42	10	ISM14402 ISM14452
For 18x45 mini-trunking	White RAL 9010	47/42/42	10	ISM14502
For 25x60 mini-trunking	White RAL 9010	62/49/49	10	ISM14602
Bend, 90°				
90 degree bend to be used in junctions between horizontal and vertical applications. To be snap-fitted onto the mini-trunking base. Material: PC/ABS.				
For 12x20 mini-trunking	White RAL 9010 Alu metallic	12/40/40	10	ISM14103 ISM14153
For 12x30 mini-trunking	White RAL 9010	12/50/50	10	ISM14203
For 18x20 mini-trunking	White RAL 9010 Alu metallic	18/40/40	10	ISM14303 ISM14353
For 18x35 mini-trunking	White RAL 9010 Alu metallic	18/55/55	10	ISM14403 ISM14453
For 18x45 mini-trunking	White RAL 9010	18/65/65	10	ISM14503
For 25x60 mini-trunking	White RAL 9010	24/80/80	10	ISM14603
Stop end				
Stop end to be snap-fitted at the end of the mini-trunking base. Material: PC/ABS.				
For 12x20 mini-trunking	White RAL 9010 Alu metallic	22/15/13	10	ISM14104 ISM14154
For 12x30 mini-trunking	White RAL 9010	32/15/13	10	ISM14204
For 18x20 mini-trunking	White RAL 9010 Alu metallic	22/15/19	10	ISM14304 ISM14354
For 18x35 mini-trunking	White RAL 9010 Alu metallic	37/15/19	10	ISM14404 ISM14454
For 18x45 mini-trunking	White RAL 9010	47/15/19	10	ISM14504
For 25x60 mini-trunking	White RAL 9010	62/17/26	10	ISM14604

P83921
P83922
P83924
P83925

Accessories

Type	Colour	Dimensions A/B/C (mm)	Qty per package	Ref. No.
Joint cover piece				
Joint cover piece to cover joints between mini-trunking covers. Material: PC/ABS.				
For 12x20 mini-trunking	White RAL 9010 Alu metallic	22/22/13	10	ISM14105 ISM14155
For 12x30 mini-trunking	White RAL 9010	32/22/13	10	ISM14205
For 18x20 mini-trunking	White RAL 9010 Alu metallic	22/22/19	10	ISM14305 ISM14355
For 18x35 mini-trunking	White RAL 9010 Alu metallic	37/22/19	10	ISM14405 ISM14455
For 18x45 mini-trunking	White RAL 9010	47/22/19	10	ISM14505
For 25x60 mini-trunking	White RAL 9010	62/22/26	10	ISM14605
T-piece				
T-piece to be used in T-junctions between mini-trunking of the same size. To be snap-fitted onto the mini-trunking base. Material: PC/ABS.				
For 12x20 mini-trunking	White RAL 9010 Alu metallic	12/40/58	10	ISM14106 ISM14156
For 12x30 mini-trunking	White RAL 9010	12/50/68	10	ISM14206
For 18x20 mini-trunking	White RAL 9010 Alu metallic	18/40/58	10	ISM14306 ISM14356
For 18x35 mini-trunking	White RAL 9010 Alu metallic	18/55/73	10	ISM14406 ISM14456
For 18x45 mini-trunking	White RAL 9010	18/65/83	10	ISM14506
For 25x60 mini-trunking	White RAL 9010	24/80/98	10	ISM14606
Branching piece				
Branching piece to be used in T-junctions between mini-trunking of different sizes. Material: PC/ABS.				
For 12x20–18x35 mini-trunking	White RAL 9010 Alu metallic	58/40/17	10	ISM14407 ISM14457
For 12x20 –18x45 mini-trunking	White RAL 9010	64/50/17	10	ISM14507
For 18x35–25x60 mini-trunking	White RAL 9010	79/65/24	10	ISM14607
Fly-over				
Fly-over to be used in combination with T-piece or branching piece. Intended to secure separation between compartments when single-insulated cable is used. Material: ABS				
For 18x35 mini-trunking	White	13/30/30	10	ISM14408
For 25x60 mini-trunking	White	20/55/55	10	ISM14608
Cutting shears				
Cutting shears for PVC and PC/ABS material. To be used when cutting mini-trunking, front covers, cable shelves or other plastic length material, instead of using a saw. Material: Steel.				
Cutting shears	Orange	230/22/80	1	ISM10908

OptiLine
Mini-trunking

Range

Compatible accessories, Thorsman brand

Type	Colour	Dimensions A/B/C (mm)	Qty per package	Ref. No.
Cable retainer				
Clamp intended to hold cables in place in the mini-trunking. Material: PA.				
TTM-KL26	Black	7.5/26/22	10	5401 600
TTM-KL36	Black	9.5/36/25	10	5401 610
Installation screw with cup washer				
Installation screw with cross-slotted head type PH2. Sharp point, fully threaded. High pitch for quick mounting. Provided with a cup washer for screw-head protection. To be used when installing single-insulated wire in the trunking. Material: Hardened steel, electroplated, and PP.				
TFT-IS5x32	—	Ø5/32	100	4020 210
Nail plug				
Nail plug with nail for through installation. Suitable for use in concrete, stone, lightweight concrete, expanded clay, hollow bricks and blocks, solid bricks and plasterboard. Material: PA.				
TPS-6/5x35	Clear	Ø 6/5/35	100	1150 002

P99133 · P62869 · P99119 · P89051

Pre-punched hole dimensions

Type
12x20
18x20

Type	A
12x30	16
18x35	16
18x45	26
25x60	40
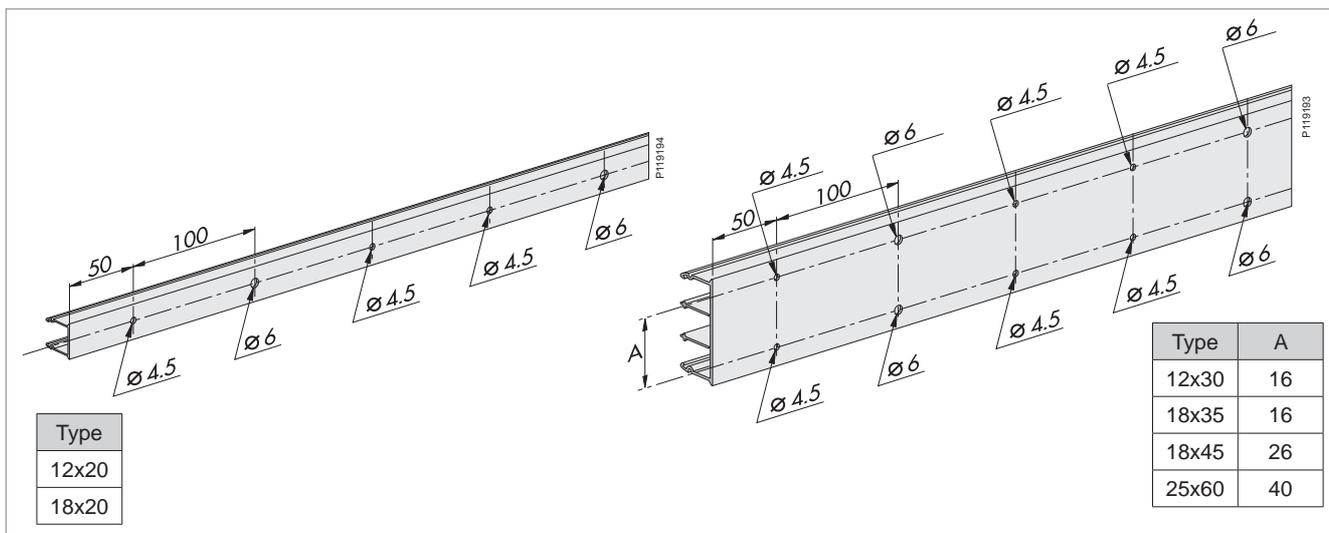
Cable capacity

Comp.	Max. cable Ø mm	Cross section area mm²	Cable capacity mm² 40%	50%	60%	
12x20						
1	10	148	59	74	89	
12x30						
1	9	115	46	57	69	
2	9	115	46	57	69	
18x20						
1	15	246	98	123	148	

Comp.	Max. cable Ø mm	Cross section area mm²	Cable capacity mm² 40%	50%	60%	
18x35						
1	12.5	201	80	100	120	
2	12.5	201	80	100	120	
18x45						
1	14	278	111	139	167	
2	14	278	111	139	167	
25x60						
1	15	339	135	170	203	
2	17	389	135	170	203	
3	15	339	135	170	203	

Design and dimensions, material

12x20	12x30	18x20	18x35	18x45	25x60
Aluminium		Aluminium	Aluminium		
PVC*	PVC	PVC*	PVC	PVC	PVC
PC/ABS*		PC/ABS*	PC/ABS		PC/ABS

*Also available with bonding tape

Exploded view

1. Base profile
2. Cover
3. Internal corner
4. External corner
5. 90° bend
6. T-piece
7. Branching piece
8. Joint cover piece
9. Stop end
10. Fly-over
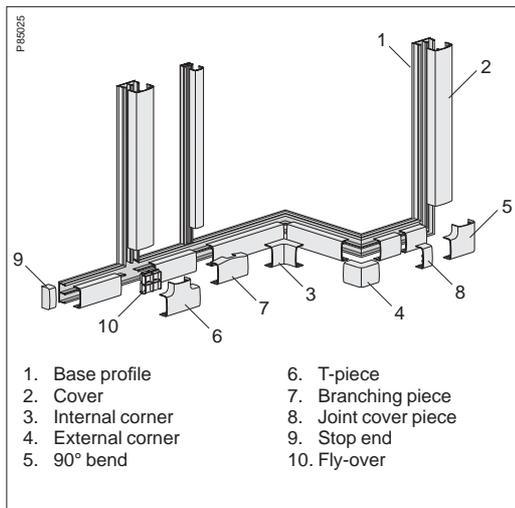
Technical and Material data

Aluminium (base, cover)	Surface treatment:	Natural anodized or powder coated white RAL 9010
	Density:	2.7 g/cm^3
	Linear expansion:	24x10^{-6}/°C
PVC (base, cover)	Characteristics:	Rigid, self-extinguishing, cadmium-free, lead-free
	Colours:	White RAL 9010
	Density:	1.5 g/cm^3
	Linear expansion:	60x10^{-6}/°C
PC/ABS (base, cover, accessories)	Characteristics:	Halogen-free
	Colours:	White RAL 9010 Aluminium metallic (painted)
	Density	1.14 g/cm^3
	Linear expansion:	70x10^{-6}/°C
ABS (fly-over)	Characteristics:	Halogen-free
	Colour:	White
	Density:	1.05 g/cm^3
Degree of protection	IP40	
Installation and application temperature	Plastic trunking: –15/+60°C (1220 and 1820) –25/+60°C (1230, 1835, 1845 and 2560)	
Resistance to impact	Plastic trunking: • 1J (1220 and 1820) • 2J (1230, 1835, 1845 and 2560)	
Delivery lengths	2.1 metres	
Standards and certificates	The product complies with the standards: •EN 50085-1:2005 •EN 50085-2-1:2006	
	The products satisfy the provisions for CE marking according to the Low Voltage Directive 73/23/EEC and 98/68/EEC.	
	The products comply with the RoHS directive 2002/95/EC (Restriction of Hazardous Substances	

Schneider Electric Industries SAS
35 rue Joseph Monier
92500 Rueil-Malmaison
France
www.schneider-electric.com

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