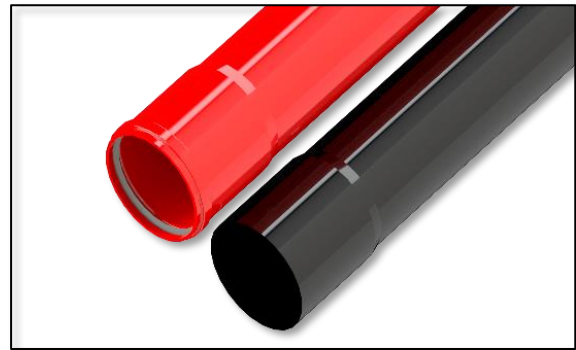


 PowerProtect+TM
uPVC Duct - Power

Product Description

Emtelle uPVC Power Duct is designed, manufactured and supplied within an Integrated Management System, incorporating internationally recognised Standards including ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.



Application

The duct is designed to comply with ENATS 12-24 (Class 1 & 2) Industry Standard.

uPVC Power duct is available with 2 socket types; Standard interference Socket (IP4X), and also Emtelle's innovative new Interference Ring Seal (IRS) Socket (IP-68). Additional information on this new socket can be found in specification EF450-019.

Duct systems are printed with standard markings, including any additional information required by the customer, to give durability and traceability after installation.

Standard length of a duct is 3m or 6m.

Colours

Colour fastness and UV stability for UK and Ireland only, for 12 months external storage unless otherwise agreed by customer specification.

Standard colours are **Black & Red**.

Other colours available upon request.

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Material & Technical data

Raw Materials are uPVC resin and other additives suitable for the required properties of the finished product.

Test	Method	Requirement
Print Marking (Type Test)	ENATS 12-24 Section 7.6 <i>Compliance is checked by rubbing the marking by hand for 15s with a piece of cloth soaked in water. Test is repeated with cloth soaked in petroleum spirit.</i>	Pass
Dimensional Checks (Routine Test)	ENATS 12-24 Section 8 <i>Compliance is checked via Calibrated ring gauges, socket go, no-go gauges.</i>	Pass
Construction (Routine Test)	ENATS 12-24 Section 9 <i>Compliance is checked via visual inspection – there shall be no sharp edges, burrs, or surface protrusions with are likely to damage installed cables.</i>	Pass
Compression Test (Sample Test)	ENATS 12-24 Section 10.2 <i>Compliance is checked by compressing 200mm sample between 2 steel plates. Record force required to compress by 5%</i>	Class 2: 450N @ 50degC Class1: 450N @ 75degC
Impact Test (Sample Test)	ENATS 12-24 Section 10.3 <i>Compliance is checked by striking x12 samples measuring 200mm in length which are conditioned to -5deg C for 2hrs. Impact 5kg at height of 570mm</i>	91-140mm OD: 28J @ -5degC >140mm OD: 40J @ -5degC
Ingress Protection (Type Test)	ENATS 12-24 Section 14 <i>Compliance is checked in accordance with BS EN 60529</i>	IF Socket: IP4X IRS Socket: IP68
Vicat Softening Temperature (Type Test)	ENATS 12-24 Section 16.2 <i>BS EN ISO 2507-1:2017, Thermoplastics pipes and fittings. Vicat softening temperature. 47 General test method</i>	>75degC
Static Friction Coefficient (Type Test)	ENATS 12-24 Section 16.3 <i>Compliance is checked via test method described in ENATS 12-24 section 16.3.3</i>	<0.27
Heat Reversion (Sample Test)	ENATS 12-24 Section 16.5 <i>Compliance is checked via air circulating over. 300mm uPVC duct sample is heated to 150deg C for 1hr.</i>	<5mm change

Packaging and Labelling

All products suitably packaged in recyclable materials and clearly labelled with Emtelle Product Code and Description where possible.

The duct is supplied on non-returnable wooden U-frames which are designed to be stored on even, stable ground; they must not be stored more than 3 high. Packaging should be recycled locally.

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Standard Dimensions & Product Codes

Nominal OD / ID	Class	Length	Colour	Interference Fit Socket	Interference Ring Seal Socket	Lengths per pallet
75 / 68	1	6m	Black	20459	21120	168
			Red	✓	✓	
75 / 69	2	6m	Black	✓	✓	
			Red		✓	
88.9 / 82	1	6m	Black	5079T	-	139
			Red	21203	-	
88.9 / 83	2	6m	Black	5079	-	
			Red	✓	-	
96.5 / 89	1	6m	Black	20159	-	115
			Red	21215	-	
96.5 / 90	2	6m	Black	3772S	-	
			Red	✓	-	
110 / 102	1	6m	Black	3769S	5331	90
			Red	5302	20423	
110 / 103	2	6m	Black	4748S	20281	
			Red	✓	✓	
125 / 117	1	6m	Black	5080T	21225	68
			Red	5333NP	21231	
125 / 118	2	6m	Black	5080	✓	
			Red	✓	✓	
140 / 131	1	6m	Black	✓	-	53
			Red	✓	-	
140 / 132	2	6m	Black	✓	-	
			Red	✓	-	
160 / 150	1	6m	Black	3769S	5338	39
			Red	5750	20211	
160 / 151	2	6m	Black	4749	20747	
			Red	✓	✓	
180 / 169	1	6m	Black	20300	20958	28
			Red	✓	21220	
200 / 188	1	6m	Black	5888	5030T	25
			Red	5893	20339	
225 / 213	1	6m	Black	20305	21274	18
			Red	20405	✓	
250 / 237	1	6m	Black	20284	20394	16
			Red	21211	20338	

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