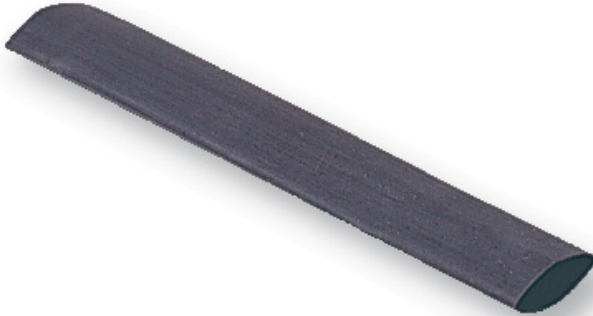


Heat Shrink Tubing

PRO-POWER
Quality Cables

3:1 Shrink Ratio



Features:

- Flexible, flame retarded heat shrinkable Polyolefin tubing.
- Operating temperature range : -55°C to +135°C.
- Shrink temperature : 100°C.

Notes : High shrink ratio accommodates difficult or irregular shapes.

Specification Values

Property	Test method	Values
Physical		
Tensile Strength	ISO 37	10Mpa (minimum)
Ultimate Elongation		250% minimum
Specific Gravity	ISO 1183	1.35 (maximum)
Heat Shock	ASTM D2671 (4 hours at 250°C)	No dripping, cracking or flowing
Heat Ageing	ISO 188 (168 hours at 175°C)	-
Heat Ageing (Ultimate Elongation)	ISO 37	150% (minimum)
Low Temperature Flexibility	ASTM D2671 (4 hours at -55°C)	no cracking
Flammibility (Except Clear)	ASTM D876	pass
Electric Strength	IEC 243	20KV/mm (minimum)
Corrosion (Copper Contact and Copper Mirror)	ASTM D2671	no corrosion
Water Absorption	ISO 62	0.5% (maximum)
Fluid Resistance	ISO 1817	-
Fluid Resistance (Gasoline)		
Fluid Resistance (Hydraulic Fluid)		
Fluid Resistance (Lubricating Oil)		
Fluid Resistance (Tensile Strength)	ISO 37	5MPa (minimum)
Fluid Resistance (Ultimate Elongation)	-	200% (minimum)
Fungus Resistance	ISO 846	-
Fungus Resistance (Tensile Strength)	ISO 37	10Mpa
Fungus Resistance (Ultimate Elongation)	-	250% (minimum)

PRO-POWER
Quality Cables

Heat Shrink Tubing

3:1 Shrink Ratio

PRO-POWER
Quality Cables

Specifications

Minimum Expansion	Maximum Recovered	Nominal Recovered Wall	Standard Length (m)	Coil Length (m)	Colour	Part Number
1.5	0.5	0.45	1.2	-	Black	SP3X15/1.2/BLACK
3.0	1.0	0.55		-		SP3X3/1-1.2 BLACK
4.55	1.5	0.60		-		SP3X4.5/1.5-1.2MBLACK
6.0	2.0	0.65		-		SP3X6/2-1.2MBLACK
9.0	3.0	0.75		-		SP3X9/3-1.2MBLACK
12.0	4.0			-		SP3X12/4-1.2MBLACK
18.0	6.0	0.85		-		SP3X18/6-1.2MBLACK
24.0	8.0	1.00		-		SP3X24/8-1.2MBLACK
39.0	13.0	1.15		-		SP3X39/13-1.2MBLACK
1.5	0.5	0.45		-		5
3.0	1.0	0.55	-	SP3X30/5/BLACK		
4.55	1.5	0.60	-	SP3X45/5/BLACK		
6.0	2.0	0.65	-	SP3X6/2-5MBLACK		
9.0	3.0	0.75	-	SP3X9/3-5MBLACK		
12.0	4.0		-	SP3X12/4-5MBLACK		
18.0	6.0	0.85	-	SP3X18/6-5MBLACK		
24.0	8.0	1.00	-	SP3X24/8-5MBLACK		
39.0	13.0	1.15	-	SP3X39/13-5MBLACK		

Dimensions : Millimetres (Unless Specified)

PRO-POWER
Quality Cables

Heat Shrink Tubing

3:1 Shrink Ratio

PRO-POWER
Quality Cables

Notes:

International Sales Offices:



AUSTRALIA – Farnell InOne
Tel No: ++ 61 2 9645 8888
Fax No: ++ 61 2 9644 7898



FINLAND – Farnell InOne
Tel No: ++ 358 9 560 7780
Fax No: ++ 358 9 345 5411



NETHERLANDS – Farnell InOne
Tel No: ++ 31 30 241 7373
Fax No: ++ 31 30 241 7333



SWITZERLAND – Farnell InOne
Tel No: ++ 41 1 204 64 64
Fax No: ++ 41 1 204 64 54



AUSTRIA – Farnell InOne
Tel No: ++ 43 662 2180 680
Fax No: ++ 43 662 2180 670



FRANCE – Farnell InOne
Tel No: ++ 33 474 68 99 99
Fax No: ++ 33 474 68 99 90



NEW ZEALAND – Farnell InOne
Tel No: ++ 64 9 357 0646
Fax No: ++ 64 9 357 0656



UK – Farnell InOne
Tel No: ++ 44 8701 200 200
Fax No: ++ 44 8701 200 201



BELGIUM – Farnell InOne
Tel No: ++ 32 3 475 2810
Fax No: ++ 32 3 227 3648



GERMANY – Farnell InOne
Tel No: ++ 49 89 61 39 39 39
Fax No: ++ 49 89 613 59 01



NORWAY – Farnell InOne
Tel No: ++ 45 44 53 66 66
Fax No: ++ 45 44 53 66 02



UK – BuckHickman InOne
++ 44 8450 510 150
++ 44 8450 510 130



BRAZIL – Farnell-Newark InOne
Tel No: ++ 55 11 4066 9400
Fax No: ++ 55 11 4066 9410



HONG KONG – Farnell-Newark InOne
Tel No: ++ 852 2268 9888
Fax No: ++ 852 2268 9899



PORTUGAL – Farnell InOne
Tel No: ++ 34 93 475 8804
Fax No: ++ 34 93 474 5288



UK – CPC
++ 44 8701 202 530
++ 44 8701 202 531



CHINA – Farnell-Newark InOne
Tel No: ++86 10 6238 5152
Fax No: ++86 10 6238 5022



IRELAND – Farnell InOne
Tel No: ++ 353 1 830 9277
Fax No: ++ 353 1 830 9016



SINGAPORE – Farnell-Newark InOne
Tel No: ++ 65 6788 0200
Fax No: ++ 65 6788 0300



EXPORT – Farnell InOne
Tel No: ++ 44 8701 200 208
Fax No: ++ 44 8701 200 209

For enquiries from all other markets



DENMARK – Farnell InOne
Tel No: ++ 45 44 53 66 44
Fax No: ++ 45 44 53 66 06



ITALY – Farnell InOne
Tel No: ++ 39 02 93 995 200
Fax No: ++ 39 02 93 995 300



SPAIN – Farnell InOne
Tel No: ++ 34 93 475 8805
Fax No: ++ 34 93 474 5107



ESTONIA – Farnell InOne
Tel No: ++ 358 9 560 7780
Fax No: ++ 358 9 345 5411



MALAYSIA – Farnell-Newark InOne
Tel No: ++ 60 3 7873 8000
Fax No: ++ 60 3 7873 7000



SWEDEN – Farnell InOne
Tel No: ++ 46 8 730 50 00
Fax No: ++ 46 8 83 52 62

<http://www.farnellinone.com>

<http://www.buckhickmaninone.com>

<http://www.cpc.co.uk>

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Pro-Power is the registered trademark of the Group. © Premier Farnell plc 2004.

PRO-POWER
Quality Cables