

## Sleeving

Order code	Manufacturer code	Description
03-0135	n/a	25.4MM X 1.2M HEATSHRINK SLEEVE CLEAR RC
03-0735	n/a	25.4MM H/SHRINK GREEN/YELLOW
03-0120	n/a	6.4MM X 1.2M HEAT SHRINK SLEEVE CLEAR RC
03-0125	n/a	9.5MM X 1.2M HEAT SHRINK SLEEVE CLEAR RC
03-0130	n/a	12.7MM X 1.2M HEATSHRINK SLEEVE CLEAR RC
03-0105	n/a	2.4MM X 1.2M HEAT SHRINK SLEEVE CLEAR RC
03-0110	n/a	3.2MM X 1.2M HEAT SHRINK SLEEVE CLEAR RC
03-0115	n/a	4.8MM X 1.2M HEAT SHRINK SLEEVE CLEAR RC
03-0545	n/a	38.1MM X 1.2M HEATSHRINK SLEEVE BLACK RC
03-0550	n/a	50.8MM X 1.2M HEATSHRINK SLEEVE BLACK RC
03-0100	n/a	1.6MM X 1.2M HEAT SHRINK SLEEVE CLEAR RC
03-0530	n/a	12.7MM X 1.2M HEAT SHRINK SLEEVE BLK. RC
03-0535	n/a	25.4MM X 1.2M HEAT SHRINK SLEEVE BLK RC
03-0540	n/a	19.1MM X 1.2M HEAT SHRINK SLEEVE BLK RC
03-0515	n/a	4.8MM X 1.2M HEAT SHRINK SLEEVE BLACK RC
03-0520	n/a	6.4MM X 1.2M HEAT SHRINK SLEEVE BLACK RC
03-0525	n/a	9.5MM X 1.2M HEAT SHRINK SLEEVE BLACK RC
03-0500	n/a	1.6MM X 1.2M HEAT SHRINK SLEEVE BLACK RC
03-0505	n/a	2.4MM X 1.2M HEAT SHRINK SLEEVE BLACK RC
03-0510	n/a	3.2MM X 1.2M HEAT SHRINK SLEEVE BLACK RC
03-0305	n/a	2.4MM X 1.2M HEATSHRINK SLEEVE BLUE RC
03-0310	n/a	3.2MM X 1.2M HEATSHRINK SLEEVE BLUE RC
03-0315	n/a	4.8MM X 1.2M HEATSHRINK SLEEVE BLUE RC
03-0230	n/a	12.7MMX1.2M HEATSHRINK YE*OFFER 03-0368*
03-0235	n/a	25.4MM X 1.2M HEAT SHRINK SLEEVE YELLOW
03-0300	n/a	1.6MM X 1.2M HEATSHRINK SLEEVE BLUE RC
03-0215	n/a	4.8MM X 1.2M HEATSHRINK SLEEVE YELLOW RC
03-0220	n/a	6.4MM X 1.2M HEATSHRINK SLEEVE YELLOW RC
03-0225	n/a	9.5MM X 1.2M HEAT SHRINK SLEEVE YELL RC
03-0200	n/a	1.6MM X 1.2M HEATSHRINK SLEEVE YELLOW RC
03-0205	n/a	2.4MM X 1.2M HEATSHRINK SLEEVE YELLOW RC
03-0210	n/a	3.2MM X 1.2M HEATSHRINK SLEEVE YELLOW RC
03-0720	n/a	n/a
03-0725	n/a	9.5MM HEAT SHRINK GREEN/YELLOW
03-0730	n/a	n/a
03-0705	n/a	2.4MM HEAT SHRINK GREEN/YELLOW
03-0710	n/a	3.2MM HEAT SHRINK GREEN YELLOW
03-0715	n/a	4.8MM HEAT SHRINK GREEN/YELLOW
03-0425	n/a	9.5MM X 1.2M HEAT SHRINK SLEEVE RED RC
03-0430	n/a	12.7MM X 1.2M HEATSHRINK SLEEVE RED RC
03-0435	n/a	25.4MM X 1.2M HEAT SHRINK SLEEVE RED
03-0410	n/a	3.2MM X 1.2M HEATSHRINK SLEEVE RED RC
03-0415	n/a	4.8MM X 1.2M HEATSHRINK SLEEVE RED RC
03-0420	n/a	6.4MM X 1.2M HEATSHRINK SLEEVE RED RC
03-0335	n/a	25.4MM X 1.2M HEAT SHRINK SLEEVE BLUE
03-0400	n/a	1.6MM X 1.2M HEATSHRINK SLEEVE RED RC

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The enclosed information is believed to be correct, Information may change without notice due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 20/02/2007

## Sleeving

<b>Order code</b>	<b>Manufacturer code</b>	<b>Description</b>
03-0405	n/a	2.4MM X 1.2M HEATSHRINK SLEEVE RED RC
03-0320	n/a	6.4MM X 1.2M HEATSHRINK SLEEVE BLUE RC
03-0325	n/a	9.5MM X 1.2M HEAT SHRINK SLEEVE BLUE RC
03-0330	n/a	12.7MM X 1.2M HEAT SHRINK SLEEVE BLUE

# Heat Shrinkable General Purpose Flexible Polyolefin

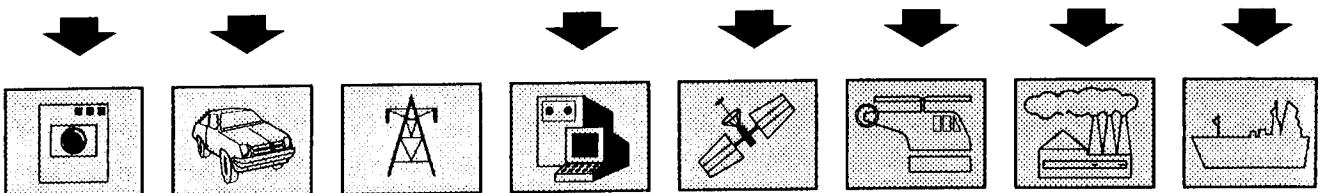
## TYPE SP

SPECIFICATION\*

PROPERTY	TEST METHOD	VALUES		
		COLOURS	CLEAR	
<b>PHYSICAL</b>				
Tensile	N/mm <sup>2</sup> min.	ASTM D2671	10.4	10.4
Elongation	% min.	ASTM D2671	200	200
Specific gravity	max.	ASTM D792	1.35	1.0
Low temperature flex		MIL-1-203053 (-55°C)	No cracking	
Heat resistance	% E	336 hrs + 175°C	100	100
Heat shock	N/mm <sup>2</sup> max.	4 hrs + 250°C	No cracks, flowing or dripping	
<b>Secant modulus</b>				
Longitudinal change	N/mm <sup>2</sup> max.	ASTM D2671	174	174
Colour stability	% max.	ASTM D2671 MIL-1-23053	5%	5%
<b>ELECTRICAL</b>				
Dielectric strength	volts/mm min.	ASTM D876	25 kV	25 kV
Volume resistivity	ohm-cm min.	ASTM D876	10 <sup>14</sup>	10 <sup>16</sup>
Dielectric constant	max.	ASTM D150	3.1	2.7
<b>CHEMICAL</b>				
Water absorption	% max.	ASTM D570-A	0.5	0.2
Corrosion (copper contact and copper mirror)		ASTM D2671	Non-corrosive	
Flammability		UL224 VW1	Self-extinguishing	Non-flame retarded
<b>Fluid resistance</b>				
Hydraulic oil		24 hrs + 23°C		
JP4, lube oil, NaCl				
De-ice fluid				
Tensile	N/mm min.		6.9	6.9
Fungus resistance		ASTM G21	Non-nutrient indefinite	
Storage life		MIL-1-23053		
Shrink temperature			100°C	100°C

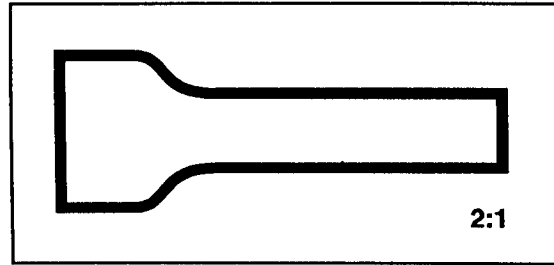
\*Typical values will normally exceed specification

PART NUMBER	MILITARY	MOD	NASA/MSFC 2768
Type SP	MIL-1-23053/5 Class 1 MIL-R-46846	DEF. STANDARD 59-97 2A Colours	Class1 Class 2



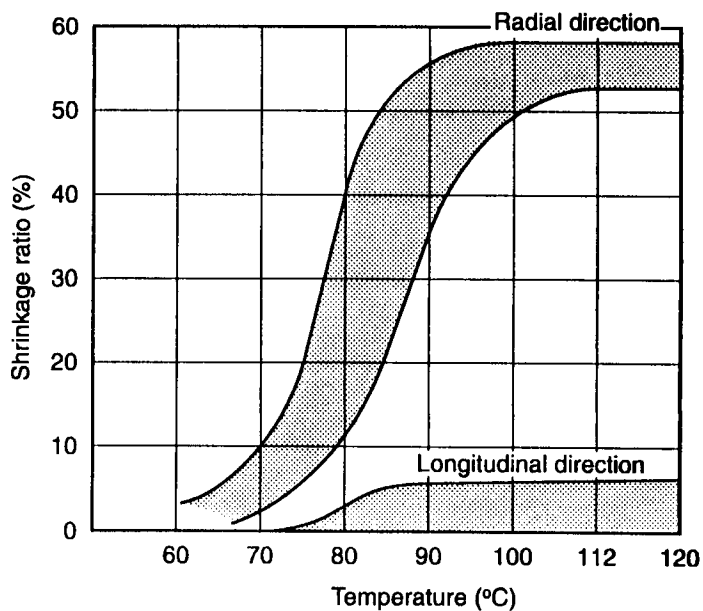
# TYPE SP

- Highly flexible, flame-retarded Polyolefin •
- Approved to MIL-1-23053/5 •
- Approved to UL 224/CSA •
- Fire-retarded to VWI •
- Operating temperature range -55 to 135°C •
- Shrink temperature 100°C •
- Shrink ratio 2:1 •
- Suitable for general insulation, wire marking, colour coding and cable harness work requiring MIL/UL approval •



ORDERING SIZE		MINIMUM EXPANSION		MAXIMUM RECOVERED		NOMINAL RECOVERED WALL	
ins	mm	ins	mm	ins	mm	ins	mm
3/64	1.2	0.046	1.2	0.023	0.6	0.016	0.40
1/16	1.6	0.063	1.6	0.031	0.8	0.017	0.43
3/32	2.4	0.093	2.4	0.046	1.2	0.020	0.51
1/8	3.2	0.125	3.2	0.062	1.6	0.020	0.51
3/16	4.8	0.187	4.8	0.093	2.4	0.020	0.51
1/4	6.4	0.250	6.4	0.125	3.2	0.025	0.64
3/8	9.5	0.375	9.5	0.187	4.8	0.025	0.64
1/2	12.7	0.500	12.7	0.250	6.4	0.025	0.64
3/4	19.1	0.750	19.1	0.375	9.5	0.030	0.76
1	25.4	1.000	25.4	0.500	12.7	0.035	0.89
1 1/2	38.1	1.500	38.1	0.750	19.1	0.040	1.14
2	50.8	2.000	50.8	1.000	25.4	0.045	1.20
3	76.2	3.000	76.2	1.500	38.1	0.050	1.27
4	102.0	4.000	101.6	2.000	50.8	0.055	1.40

## SHRINKAGE RATIO AND TEMPERATURE



Soaked in ethyleneglycol for 1 min.

## Heat Shrinkable Sleeving

Colour	ID Minimum Expanded
Clear Yellow Blue Red Black	1.6mm
Clear Yellow Blue Red Black Green/Yellow	2.4mm
Clear Yellow Blue Red Black Green/Yellow	3.2mm
Clear Yellow Blue Red Black Green/Yellow	4.8mm
Clear Yellow Blue Red Black Green/Yellow	6.4mm

Colour	ID Minimum Expanded
Clear Yellow Blue Red Black Green/Yellow	9.5mm
Clear Yellow Blue Red Black Green/Yellow	12.7mm
Black	19.1mm
Clear Yellow Blue Red Black Green/Yellow	25.4mm
Black	38.1mm
Black	50.8mm