



REVISIONS

DOC. NO. SPC-F004 * Effective: 7/8/02 * DCP No: 1398

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1716	G	revised Lengths FPS-032 series	JWM	4/22/04	JC	4/22/04	JC	4/22/04
1857	H	RoHS Added	DCM	12/10/05	JWM	3/17/06	JWM	3/17/06

DESCRIPTION:

RoHS
Compliant

TYPE FPS (FPA) IS A SINGLE WALL FLEXIBLE HEAT SHRINK RADIATION CROSS-LINKED POLYOLEFIN TUBING. UPON THE APPLICATION OF HEAT IN EXCESS OF 250°F (121°C) TUBING SHRINKS AND CONFORMS TO THE GEOMETRY TO BE COVERED. CLEAR IS NOT UL RECOGNIZED OR CSA APPROVED. SHRINKAGE: 2:1

COLOR:

BLACK AND CLEAR IN ALL SIZES AND LENGTHS. GREEN, BLUE, RED, YELLOW AND WHITE AVAILABLE IN SOME PUT UP SIZES.

LENGTH:

4' (+1", -0"); 6" (±0.125") STANDARD

TYPE	SIZE (I.D.)	MINIMUM EXP. I.D.	MAXIMUM RECOVERED I.D.	RECOVERED NOM. WALL THICKNESS TOTAL WALL	PACKAGING (PER BOX)
FPS-003-1100-BLK	.046	.046	.023	.016	100' SPOOL
FPS-003-4025-BLK	.046	.046	.023	.016	(25) 4' LENGTHS
FPS-003-4025-CLR	.046	.046	.023	.016	(25) 4' LENGTHS
FPS-003-6040-BLK	.046	.046	.023	.016	(40) 6" LENGTHS
FPS-004-1100-BLK	.063	.063	.031	.017	100' SPOOL
FPS-004-4025-BLK	.063	.063	.031	.017	(25) 4' LENGTHS
FPS-004-4025-CLR	.063	.063	.031	.017	(25) 4' LENGTHS
FPS-004-4025-GRN	.063	.063	.031	.017	(25) 4' LENGTHS
FPS-004-6036-BLK	.063	.063	.031	.017	(36) 6" LENGTHS
FPS-004-6036-CLR	.063	.063	.031	.017	(36) 6" LENGTHS
FPS-004-6036-GRN	.063	.063	.031	.017	(36) 6" LENGTHS
FPS-006-1100-BLK	.093	.093	.046	.020	100' SPOOL
FPS-006-4025-BLK	.093	.093	.046	.020	(25) 4' LENGTHS
FPS-006-4025-CLR	.093	.093	.046	.020	(25) 4' LENGTHS
FPS-006-4025-GRN	.093	.093	.046	.020	(25) 4' LENGTHS
FPS-006-6032-BLK	.093	.093	.046	.020	(32) 6" LENGTHS
FPS-006-6032-GRN	.093	.093	.046	.020	(32) 6" LENGTHS
FPS-006-6032-WHT	.093	.093	.046	.020	(32) 6" LENGTHS
FPS-008-1100-BLK	.125	.125	.062	.020	100' SPOOL
FPS-008-4025-BLK	.125	.125	.062	.020	(25) 4' LENGTHS

SPC-F004.DWG

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:

JOSE PANGANIBAN

DATE:

1/22/96

CHECKED BY:

JOHN COLE

DATE:

7/13/96

APPROVED BY:

JOHN LISZKA

DATE:

7/14/98

DRAWING TITLE:

HEAT SHRINK TUBING

SIZE

A

DWG. NO.

TA-130

ELECTRONIC FILE

TA-130.DWG

REV

H

SCALE: NTS

U.O.M.: INCHES

SHEET: 1 OF 4

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TYPE	SIZE (I.D.)	MINIMUM EXP. I.D.	MAXIMUM RECOVERED I.D.	RECOVERED NOM. WALL THICKNESS TOTAL WALL	PACKAGING (PER BOX)
FPS-008-4025-CLR	.125	.125	.062	.020	(25) 4' LENGTHS
FPS-008-4025-GRN	.125	.125	.062	.020	(25) 4' LENGTHS
FPS-008-6028-BLK	.125	.125	.062	.020	(28) 6" LENGTHS
FPS-008-6028-CLR	.125	.125	.062	.020	(28) 6" LENGTHS
FPS-008-6028-GRN	.125	.125	.062	.020	(28) 6" LENGTHS
FPS-008-6028-RED	.125	.125	.062	.020	(28) 6" LENGTHS
FPS-008-6028-WHT	.125	.125	.062	.020	(28) 6" LENGTHS
FPS-012-1100-BLK	.187	.187	.093	.020	100' SPOOL
FPS-012-4025-BLK	.187	.187	.093	.020	(25) 4' LENGTHS
FPS-012-4025-CLR	.187	.187	.093	.020	(25) 4' LENGTHS
FPS-012-4025-GRN	.187	.187	.093	.020	(25) 4' LENGTHS
FPS-012-6024-BLK	.187	.187	.093	.020	(24) 6" LENGTHS
FPS-012-6024-BLU	.187	.187	.093	.020	(24) 6" LENGTHS
FPS-012-6024-CLR	.187	.187	.093	.020	(24) 6" LENGTHS
FPS-012-6024-GRN	.187	.187	.093	.020	(24) 6" LENGTHS
FPS-012-6024-RED	.187	.187	.093	.020	(24) 6" LENGTHS
FPS-012-6024-WHT	.187	.187	.093	.020	(24) 6" LENGTHS
FPS-016-1100-BLK	.250	.250	.125	.025	100' SPOOL
FPS-016-4025-BLK	.250	.250	.125	.025	(25) 4' LENGTHS
FPS-016-4025-CLR	.250	.250	.125	.025	(25) 4' LENGTHS
FPS-016-4025-GRN	.250	.250	.125	.025	(25) 4' LENGTHS
FPS-016-6020-BLK	.250	.250	.125	.025	(20) 6" LENGTHS
FPS-016-6020-BLU	.250	.250	.125	.025	(20) 6" LENGTHS
FPS-016-6020-CLR	.250	.250	.125	.025	(20) 6" LENGTHS
FPS-016-6020-GRN	.250	.250	.125	.025	(20) 6" LENGTHS
FPS-016-6020-RED	.250	.250	.125	.025	(20) 6" LENGTHS
FPS-016-6020-WHT	.250	.250	.125	.025	(20) 6" LENGTHS
FPS-024-1100-BLK	.375	.375	.187	.025	100' SPOOL
FPS-024-4025-BLK	.375	.375	.187	.025	(25) 4' LENGTHS
FPS-024-4025-CLR	.375	.375	.187	.025	(25) 4' LENGTHS
FPS-024-4025-GRN	.375	.375	.187	.025	(25) 4' LENGTHS
FPS-024-6016-BLK	.375	.375	.187	.025	(16) 4' LENGTHS
FPS-024-6016-BLU	.375	.375	.187	.025	(16) 4' LENGTHS
FPS-024-6016-CLR	.375	.375	.187	.025	(16) 4' LENGTHS
FPS-024-6016-GRN	.375	.375	.187	.025	(16) 4' LENGTHS
FPS-024-6016-RED	.375	.375	.187	.025	(16) 4' LENGTHS
FPS-024-6016-WHT	.375	.375	.187	.025	(16) 4' LENGTHS

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SIZE

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DWG. NO.

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ELECTRONIC FILE

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TYPE	SIZE (I.D.)	MINIMUM EXP. I.D.	MAXIMUM RECOVERED I.D.	RECOVERED NOM. WALL THICKNESS	PACKAGING (PER BOX)
FPS-032-1100-BLK	.500	.500	.250	.025	100' SPOOL
FPS-032-4005-BLK	.500	.500	.250	.025	(5) 4' LENGTHS
FPS-032-4005-CLR	.500	.500	.250	.025	(5) 4' LENGTHS
FPS-032-4005-GRN	.500	.500	.250	.025	(5) 4' LENGTHS
FPS-032-6014-BLK	.500	.500	.250	.025	(14) 6" LENGTHS
FPS-032-6014-CLR	.500	.500	.250	.025	(14) 6" LENGTHS
FPS-032-6014-GRN	.500	.500	.250	.025	(14) 6" LENGTHS
FPS-032-6014-RED	.500	.500	.250	.025	(14) 6" LENGTHS
FPS-032-6014-WHT	.500	.500	.250	.025	(14) 6" LENGTHS
FPS-048-1050-BLK	.750	.750	.375	.030	50' SPOOL
FPS-048-4005-BLK	.750	.750	.375	.030	(5) 4' LENGTHS
FPS-048-4005-CLR	.750	.750	.375	.030	(5) 4' LENGTHS
FPS-048-4005-GRN	.750	.750	.375	.030	(5) 4' LENGTHS
FPS-048-6012-BLK	.750	.750	.375	.030	(12) 6" LENGTHS
FPS-048-6012-CLR	.750	.750	.375	.030	(12) 6" LENGTHS
FPS-048-6012-GRN	.750	.750	.375	.030	(12) 6" LENGTHS
FPS-064-1050-BLK	1.00	1.00	.500	.035	50' SPOOL
FPS-064-4005-BLK	1.00	1.00	.500	.035	(5) 4' LENGTHS
FPS-064-4005-CLR	1.00	1.00	.500	.035	(5) 4' LENGTHS
FPS-064-4005-GRN	1.00	1.00	.500	.035	(5) 4' LENGTHS
FPS-064-6008-BLK	1.00	1.00	.500	.035	(8) 6" LENGTHS
FPS-064-6008-GRN	1.00	1.00	.500	.035	(8) 6" LENGTHS
FPS-096-1050-BLK	1.50	1.50	.750	.040	50' SPOOL
FPS-096-4005-BLK	1.50	1.50	.750	.040	(5) 4' LENGTHS
FPS-096-4005-CLR	1.50	1.50	.750	.040	(5) 4' LENGTHS
FPS-096-6005-BLK	1.50	1.50	.750	.040	(5) 6" LENGTHS
FPS-096-6005-CLR	1.50	1.50	.750	.040	(5) 6" LENGTHS
FPS-128-1050-BLK	2.00	2.00	1.00	.045	50' SPOOL
FPS-128-4005-BLK	2.00	2.00	1.00	.045	(5) 4' LENGTHS
FPS-128-4005-CLR	2.00	2.00	1.00	.045	(5) 4' LENGTHS
FPS-128-6003-BLK	2.00	2.00	1.00	.045	(3) 6" LENGTHS
FPS-128-6003-BLU	2.00	2.00	1.00	.045	(3) 6" LENGTHS

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SCALE: NTS

U.O.M.: INCHES [mm]

SHEET: 3 OF 4

TYPICAL PROPERTIES:

Physical

TENSILE STRENGTH	2400 PSI
ULTIMATE ELONGATION	400%
LONGITUDINAL CHANGE	±5%
SECANT MODULUS (2%)	1.7 X 10 ⁴ PSI
SPECIFIC GRAVITY	1.3 G/CM ² MAX (BLACK) .93 G/CM ² MAX (CLEAR)
HEAT AGING (336 HRS @ 175°C)	ELONGATION 175%
HEAT SHOCK (4 HRS @ 250°C)	NO DRIPPING, CRACKING,
LOW TEMPERATURE FLEXIBILITY: (4 HRS @ -55°C)	NO CRACKING
FLAMMABILITY	COLORED TUBING: SELF-EXTINGUISH; MEETS UL 224 ALL TUBING FLAME TEST (CLASS 1 ONLY) CLEAR TUBING: CLASS 2 (NON-FLAME RETARDANT)

UL RECOGNIZED:

E52331

CSA APPROVED:

LR382278M

MIL. SPEC. #:

I-23053/5 CLASS 1,2
AMS-3636, AMS-3637

Electrical

DIELECTRIC STRENGTH:	900 V/MIL
VOLUME RESISTIVITY	10 ¹⁵ OHM-CM

Chemical

CORROSIVE EFFECT	NON-CORROSIVE
SOLVENT RESISTANCE	
TENSILE STRENGTH	1000 PSI
DIELECTRIC STRENGTH	400 V/MIL
WATER ABSORPTION	0.2%
FUNGUS RESISTANCE	NON-NUTRIENT