



3-TO-1 ADHESIVE LINED, HIGH SHRINK RATIO

3-to-1 is a semi-flexible, cross-linked polyolefin tube which possesses a melttable inner lining of adhesive that flows when heated. In addition to insulation and mechanical protection, this tubing provides a moisture-proof seal for encapsulation of wires, splices, breakouts, and components.

FEATURES:

- 3:1 Shrink ratio.
- Continuous operating temperature range of -55°C to 110°C.
- Semi-Flexible
- Moisture sealing
- Flame retardant (except clear)

APPLICABLE SPECIFICATIONS:

AMS 3634
MIL-I-23053/4 - Class 3

PART NUMBER	EXPANDED I.D. INCHES	RECOVERED I.D. INCHES	RECOVERED WALL THICKNESS	AVAILABLE COLORS
BEHS-1/8	.125	.023	.038	BK, RD, CL
BEHS-3/16	.188	.060	.045	BK, RD, CL
BEHS-1/4	.250	.080	.047	BK, RD, CL
BEHS-3/8	.375	.135	.050	BK, RD, CL
BEHS-1/2	.500	.195	.055	BK, RD, CL
BEHS-3/4	.750	.313	.065	BK, RD, CL
BEHS-1	1.000	.400	.075	BK, RD, CL
BEHS-1.5	1.500	.600	.120	BK
BEHS-2.05	2.050	.800	.150	BK

SEE CHART ON NEXT PAGE FOR RECOMMENDED TUBING SIZES PER WIRE GAUGE.

ORDERING INFORMATION:

BK = Black, RD = Red, CL = Clear
Combine PART NUMBER with COLOR. EX: BEHS-1/2BK = 1/2" Blk
All sizes sold in 48" lengths.

HEAVY WALL TUBING



Heavy wall heat shrinkable tubing affords maximum reliability for insulating and sealing electrical connections and terminations. BHW is tough and durable, installs quickly and easily protecting electrical connections in the most adverse conditions including direct burial and submersible installations. BHW is coated internally with a dual purpose thermoplastic liner which flows and encapsulates when heated. When cooled the tubing offers the mechanical strength of a superior adhesive and the corrosion protection of a high quality mastic.

FEATURES:

- 3:1 Shrink ratio.
- Higher than usual dielectric strength at 500 volts/mil thickness
- Highly abrasion and impact resistant
- The thermoplastic liner will adhere to PVC, neoprene, polyolefins, EPR, as well as steel, aluminum, and lead
- Easy installation, shrinks when heated over 120°C

APPLICABLE SPECIFICATIONS:

U.L. 486D - Insulated wire connects for use with underground conductors
C.S.A. C22.2 No. 198 - Underground cable splicing kits
ANSI C119.1 - Sealed insulated underground connector systems rated at 600V

PART NUMBER	EXPANDED I.D. INCHES	RECOVERED I.D. INCHES	APPLICATION RANGE AWG* (INCHES)	RECOVERED WALL THICKNESS
BHW-3/4BK	.750	.240	#6-#1 (.25-.65)	.09
BHW-3/4RD	.750	.240	#6-#1 (.25-.65)	.09
BHW-1.1BK	1.100	.350	1/0-4/0 (.40-.95)	.12
BHW-1.1RD	1.100	.350	1/0-4/0 (.40-.95)	.12

ORDERING INFORMATION:

BK = Black, RD = Red
All sizes sold in 12" lengths.

*Recommended cable size range for single conductor.



2-TO-1 FLEXIBLE, MULTI-PURPOSE

BHS is made from a cross-linked polyolefin, offering excellent electrical, chemical and physical properties. BHS is excellent for insulation, harnessing, strain relief and identification purposes.

APPLICABLE SPECIFICATIONS:

U.L. 224, 125°C
C.S.A. 125°C
MIL-I-23053/5

FEATURES:

- 2:1 Shrink ratio.
- Continuous operating temperature range of -55°C to 135°C.
- Flexible
- High tensile strength
- Flame retardant (except clear)
- UL/CSA/MIL approved
- Resistant to common fluids and solvents

PART NUMBER	EXPANDED I.D. INCHES	RECOVERED I.D. INCHES	RECOVERED WALL THICKNESS	AVAILABLE COLORS
BHS-1/16	.062	.031	.018	BK, RD, CL, WH, GN, BL, YL
BHS-1/8	.125	.063	.020	BK, RD, CL, WH, GN, BL, YL
BHS-3/16	.188	.094	.020	BK, RD, CL, WH, GN, BL, YL
BHS-1/4	.250	.125	.025	BK, RD, CL, WH, GN, BL, YL
BHS-3/8	.375	.188	.025	BK, RD, CL, WH, GN, BL, YL
BHS-1/2	.500	.250	.025	BK, RD, CL, WH, GN, BL, YL
BHS-3/4	.750	.375	.030	BK, RD, CL, WH, GN, YL
BHS-1	1.000	.500	.035	BK, RD, CL
BHS-1.5	1.500	.750	.040	BK
BHS-2	2.000	1.000	.045	BK
BHS-3	3.000	1.500	.050	BK
BHS-4	4.000	2.000	.055	BK

ORDERING INFORMATION:

BK = Black, RD = Red, CL = Clear, WH = White, GN = Green, BL = Blue, YL = Yellow
Combine PART NUMBER with COLOR. EX: BHS-1/2RD = 1/2" Red
All sizes sold in 48" lengths.

TECHNICAL DATA:

Properties	Test Method	Typical Values
Tensile Strength	ASTM D2671	2300PSI
Ultimate Elongation	ASTM D2671	400%
Operating Temp.	—	-55°C to +135°C
Min. Shrink Temp.	—	100°C
Longitudinal Change	ASTM D2671	± 5%
Dielectric Strength	ASTM 876	800 volts/mil
Volume Resistivity	ASTM 876	1016 ohm-cm
Fluid Resistance	MIL-I-23053/5	Good to Excellent
Corrosion Resistance	MIL-I-23053/5	Non-Corrosive
Fungus Resistance	ASTM G21	No Growth
Water Absorption	ASTM D570	0.1% (max)

HEAT SHRINK SIZE SELECTOR GUIDE FOR 2-TO-1 or 3-TO-1 TUBING

WIRE AWG	RECOMMENDED TUBING SIZE
24	1/16"
22	1/16"
20	3/32"
18	1/8"
16	3/16"
14	3/16"
12	3/16"
10	1/4"
8	1/4" OR 3/8"
6	3/8" OR 1/2"
4	1/2" OR 3/4"
2	3/4" OR 1"

NOTE: The chart above is only a general recommendation. Insulation varies with different types of wire, a different diameter of tubing may actually be required. Also, when choosing a size consider any components or connectors that may need to be covered