

Part Number TSGBK

Header TSGBK Low Voltage Cable Breakouts

Description Thermosleeve-USA TSGBK Low Voltage Cable Breakout is made from irradiated cross-linked polyolefin. This specifically designed formulation provides the tubing with a low shrink temperature, fire-retardance properties, and flexibility. It also meets RoHS and other environmentally concerned standards. TSGBK comes in 2, 3, 4, and 5-core cable breakouts.

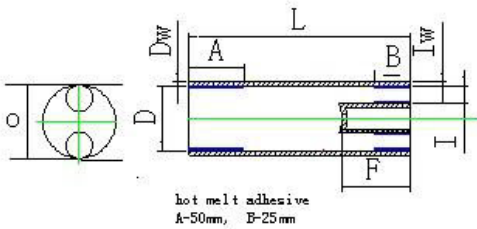
Agency Approval & Compliance ROHS, and REACH compliant

Application TSGBK molded polyolefin is designed for breakouts. It is suitable for applications in low voltage cable terminations where electrical insulation and waterproofing is essential.

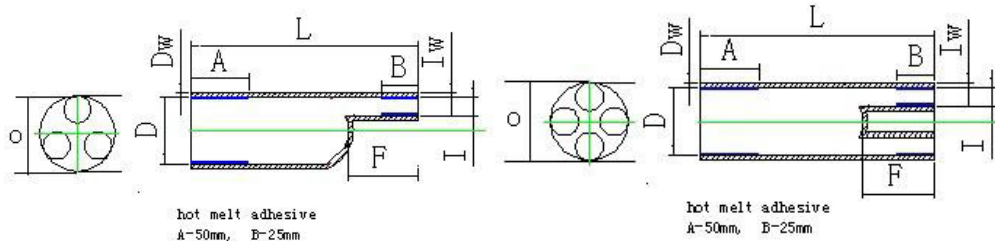
Shrink Ratio and Operating Temperature TSGBK is available as a 2:1 material, shrinking to one half (50%) of its supplied size and ≤10% along the axis. The tubing’s wall thickness also changes proportionally to the degree of recovery.

TSGBK low voltage cable breakouts have a continuous operating temperature range of -55 degrees C (-67 degrees F) to 135 degrees C (275 degrees F). Working temperature: 150°C (302 degrees F).

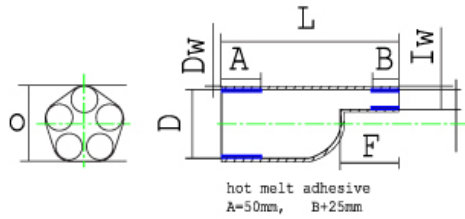
Standard Sizes and Dimensions



Size (mm)	As supplied (mm) ± 10%		D (mm)		l (mm)		Recovered wall (mm) ±10%		Recovered wall (mm) ±20%	
	L *	F *	a* (Min.)	b* (Max.)	a* (Min.)	b* (Max.)	L	F	Dw	lw
2-core cable breakouts										
TSGBK205-22/8	55	16	22	12	11	3.5	60	18	2.2	1.8
TSGBK210-30/12	80	22	30	14	14	4.5	84	21	2.6	2.4
TSGBK215-40/16	100	30	40	16	15	5	110	30	2.2	2.2
TSGBK220-60/23	95	21	60	23	25	8	105	25	2.4	2.4
TSGBK230-90/60	165	45	90	60	30	8	170	48	3	3
TSGBK250-160/ 9 0	290	170	160	92	50	30	310	160	4.5	4.5



Size (mm)	As supplied (mm) ± 10%		D (mm)		I (mm)		Recovered wall (mm) ±10%		Recovered wall (mm) ±20%	
	L *	F *	a* (Min.)	b* (Max.)	a* (Min.)	b* (Max.)	L	F	Dw	Iw
3-core cable breakout										
TSGBK310-38/16	100	35	38	16	15	5	110	30	2.3	2
TSGBK320-60/25	170	40	60	25	26	8	175	45	3.2	2.8
TSGBK325-70/28	175	45	70	28	32	10	180	45	3.3	3
TSGBK330-80/38	190	50	80	38	34	16	195	55	3.5	3.3
TSGBK340-110/50	220	55	110	50	46	19	230	60	3.8	3.5
TSGBK350-125/57	230	58	125	57	55	20	240	65	3.7	3.3
TSGBK360-140/70	250	58	140	70	62	26	270	68	3.9	3.6
TSGBK370-170/77	250	55	170	77	75	28	270	68	3.9	3.6
4-core cable breakout										
TSGBK410-40/15	95	23	40	15	12	5	100	24	2.2	2
TSGBK420-55/21	145	40	55	21	20	5.5	150	42	2.9	2.7
TSGBK425-65/26	170	45	65	26	25	7.5	180	50	3.3	3.1
TSGBK430-75/26	180	45	75	26	28	7.5	190	50	3.3	3.1
TSGBK440-82/37	170	46	82	37	30	11	180	45	3.3	3
TSGBK445-90/37	170	46	90	37	32	11	180	50	3.3	3
TSGBK450-100/47	180	55	100	47	38	12	190	55	3.9	3.3
TSGBK460-125/52	215	50	125	52	50	15	240	68	4	4
TSGBK470-160/70	240	50	160	70	64	20	270	68	3.8	3.7



Size (mm)	As supplied (mm) $\pm 10\%$		D (mm)		I (mm)		Recovered wall (mm) $\pm 10\%$		Recovered wall (mm) $\pm 20\%$	
	L *	F *	a* (Min.)	b* (Max.)	a* (Min.)	b* (Max.)	L	F	Dw	Iw

5-core cable breakout										
TSGBK510-40/19	90	20	40	19	13	4.5	85	20	2.5	2.2
TSGBK520-55/24	145	36	55	24	18	5.5	150	40	3	2.6
TSGBK530-80/33	160	46	80	33	26	8	175	50	3.2	3
TSGBK540-100/42	185	52	100	42	35	10	195	55	3.5	3.2

Technical Properties

Property	Test Method	Typical Data
Tensile strength	ASTM D 2671	≥ 13 MPa
Tensile strength after thermal aging	ASTM D 2671 /120°C, 168 hrs.	≥ 10 MPa
Ultimate elongation	ASTM D 2671	$\geq 300\%$
Ultimate elongation after thermal aging	ASTM D 2671 /120°C, 168 hrs.	$\geq 250\%$
Dielectric strength	IEC 243	≥ 15 kV/mm
Volume resistance	IEC 93	$\geq 10^{13}$ $\Omega \cdot \text{cm}$
Water absorption	O 62	$\leq 1\%$

TSGBK tubing shall be homogeneous and essentially free from flaws, defects, pinholes, bubbles, seams, cracks and inclusions. Standard color is black.

Standard color: Black

Availability 2, 3, 4, 5-core cable breakouts

Important Notice The information related to Thermosleeve-USA products in both printed or electronic format is believed to be reliable but the accuracy and completeness is not guaranteed. We suggest that before using this product, you evaluate and determine if it is suitable to your intended application. Thermosleeve-USA assumes no risk or liability associated with the use of this material. Any statements related to this product that are not contained in the current Thermosleeve-USA online or printed literature, or any contrary statements referenced on purchase order, shall have no force or effect unless expressly agreed to in writing and signed by an office of Thermosleeve-USA.

Limited Warranty/Limited Liability Thermosleeve-USA offers no guarantees in respect to the accuracy of the information detailed in this document and accepts no explicit or applied liability as to the products use. In no instance will Thermosleeve-USA be liable for any eventual, indirect or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product. Thermosleeve-USA specifications are subject to change without notice; including changes in materials and processing that do not affect compliance of the products specification. Thermosleeve-USA guarantees the product to be free from defects in material and manufacturing at the time of purchase. If this product is found to be defective within the warranty period, at our option we will refund the purchase price, replace or repair the Thermosleeve-USA product.