

HEAT SHRINK HALOGEN-FREE CABLE BREAKOUTS

FOR POWER CABLES UP TO 1 kV

KEY FEATURES

- High electrical characteristics and mechanical strength for low voltage applications
- Medium-wall, cross-linked polyolefin. UV-stabilized against irradiation and weathering
- Halogen and silicon-free material content, non-corrosive, non-toxic and free of lead and aluminium
- Inline coated with hot melt adhesive inside body and fingers
- Color black, > 2.5:1 shrink ratio
- Unlimited shelf-life

TE Connectivity's (TE) Raychem medium-wall heat shrink cable breakouts are designed for insulation and cable crutch protection on low voltage cable accessories, such as low voltage terminations. They are also used in sealing against moisture and mechanical protection in low voltage splices, especially in transition joints.

On application of heat, the cable breakouts shrink to the original smaller diameter, fitting tightly over a wide range of cable sizes and cable accessories because of their high shrink ratio. At the same time the breakouts sealant coating at the fingers and the body inner walls give a reliable moisture seal on a high variety of substrate materials used on energy cables.

TE's Raychem cable breakouts are fast and easy to install and have proven their long-term reliability in operation, as well as in harsh climatic conditions and polluted environments.

The cable breakouts are available in many sizes, for 2-core up to 5-core cable, covering a wide range of core and cable diameters.

The material content of the breakouts is halogen-free and stabilized against UV irradiation. The breakouts have an unlimited shelf-life when stored under normal conditions.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.



Compliant to RoHS and REACH regulations.

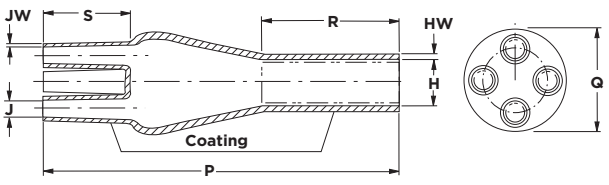
TESTING

Cable Breakout Properties	Test Method	Material Requirements
Tensile Strength	ISO 37	10.5 MPa min
Ultimate Elongation	ISO 37	300% min
Secant Modulus at 23°C ± 2°C	ISO 527/1-3	130 Mpa max
Hardness	ISO 868	40 - 60 shore D
Accelerated ageing 7 days at 150°C ± 2°C Tensile Strength Ultimate Elongation	 ISO 188 ISO 37 ISO 37	 8.5 MPa min 100% min
Low Temperature Flexibility	ASTM D2671 Procedure C	No cracking at 4 hours at -40°C ± 3°C
Volume Resistivity	IEC 60093	1 x 10^{12} Ω cm min
Water Absorption 24 hours at 23°C ± 2°C	ISO 62 method 1	0.5% max
Resistance to Liquids Transformer Oil to VDE 0370		
7 days at 23°C ± 2°C	ISO 1817	
Tensile Strength	ISO 37	8.5 MPa min
Ultimate Elongation	ISO 37	240% min.

PRODUCT SELECTION INFORMATION - DIMENSIONS ARE SHOWN IN MM

Description	Number of Cores	H		J		P	R	S	Q	HW	JW
		Supplied min	Recovered max	Supplied min	Recovered max	Recovered +/- 10%	Recovered +/- 10%	Recovered +/- 10%	Recovered +/- 10%	Recovered +/- 20%	Recovered +/- 20%
302K333/S	2	28	9.2	15	4.1	90	-	25	15	3.2	1.6
302K224/S	2	48	32	22	7	172	-	70	34	2.0	2.0
302K466/S	2	86	42	40	17	200	-	75	45	2.5	2.5
402W533/S	3	38	13	16	4.2	103	45	28	22	2.7	1.5
402W516/S	3	63	22	26	9	180	85	40	35	3.5	1.5
402W525/S	3	85	33	32	12	180	130	50	38	3.0	2.5
402W526/S	3	100	28	44	13	205	90	45	42	3.5	2.5
402W548/S	3	115	45	52	22	240	100	60	64	4.0	2.5
402W545/S	3	124	60	51	24	239	188	51	65	3.0	3.2
402W539/S	3	170	60	60	30	252	90	66	85	4.2	2.6
502S013/S	4	23	9.5	7	2	60	-	17	13	2.0	1.2
502K033/S	4	45	16.5	14	3.4	98	71	25	-	2.5	1.9
502K046/S	4	45	19	20	7	165	75	40	45	3.5	2.0
502K016/S	4	80	27	25	9	217	100	44	50	3.5	2.0
502K026/S	4	100	31	40	13.5	223	103	51	50.4	3.5	2.5
502R810/S	3 + 1*	170	60	50*	23*	255	90	65	109	4.0	3.5
603W035/S	4 + 1**	68	26	30**	7**	182	75	40	45	3.2	2.5
603W040/S	4 + 1***	85	26	33***	7***	182	75	40	45	3.2	2.5
903K015/S	7 + 1****	50	25	23****	6.5****	163.5	97.5	33	53.5	3.5	2.2

*One of 4 outlets dim = 43 / 19; **One of 5 outlets dim = 20 / 6: ***One of 5 outlets dim = 27 / 6; ****One of 8 outlets dim = 6 / 2.8



te.com/energy

© 2020 TE Connectivity. All Rights Reserved. EPP-0115-09/20-EN-IEC

TE Connectivity, TE connectivity (logo), EVERY CONNECTION COUNTS, AMP, AMPACT, Axicom, Bowthorpe EMP, Crompton Instruments, Raychem, SIMEL, UTILUX are trademarks. Other logos, product and Company names mentioned herein may be trademarks of their respective owners. While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this brochure are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

FOR MORE INFORMATION: TE Technical Support Centers

USA/Canada:	+1 800-327-6996
Brazil:	+55 11-2103-6023
Mexico:	+52 55-1106-0800
South America:	+57 1-319-8962
Benelux:	+32 16-508-695
France:	+33 (0) 38-058-3210
Germany/Switzerland:	+49 (0) 89-608-9903
Italy:	+39 335-834-3453
Middle East/Africa:	+971 4-211-7020
Russia:	+7 495-790-790-2-200
Spain/Portugal:	+34 912-681-885
UK:	+44 08708-707-500
China:	+86 400-820-6015