



eurotech

TUBING PRODUCTS

Single & Dual Wall | OEM Approved
Splice & Ring Terminal Sealing | Connector Strain Relief

D U A L W A L L S P L I C E S E A L I N G	Product		ET12 ET82	ET22 ET25	ET15 ET85	ET17 ET87	ET16 ET86	ET18 ET28	ET14 ET84	ET26	ET27	
	Main Features		Extended Temp OEM Engine Compartment Splice	Standard Temp OEM Engine Compartment Splice	OEM Cab Splice	High Temp Splice	Flame Retardant Adhesive	Clear Jacket / Black Adhesive	Standard Temp CAP	Low Temp CAP	High- Performance CAP	
	Operational Temperatures	High °C	130	125	110	150	135 / 125	125	125	100	130	
		Low °C	-40	-40	-40	-40	-40	-40	-40	-40	-40	
	Jacket	Material Type	PO-XL									
		Characteristics	Semi-Rigid, Flame Retardant	Semi-Rigid, Flame Retardant	Flexible, Flame Retardant, Low Shrink Temp	Semi-Rigid, Flame Retardant	Semi-Rigid, Flame Retardant	Semi-Rigid	Semi-Rigid, Flame Retardant	Semi-Rigid, Flame Retardant	Semi-Rigid, Flame Retardant	
	Adhesive	Material Type	PA	EVA	EVA	PA	PA / EVA	EVA	PA	EVA	PA	
		Characteristics	High Viscosity	High / Low Viscosity	Low Viscosity	High Viscosity	Flame Retardant, White	Low Viscosity, Black	High Viscosity	Low Viscosity	High Viscosity	
	Available Sizes	Shrink Ratio	3:1, 4:1 / 4:1	4:1	4:1, 6:1 / 4:1	3:1, 4:1	4:1	4:1	3:1, 4:1 / 3:1, 4:1, 5:1	3:1, 4:1	3:1, 4:1	
		IDe mm	smallest	4.0	4.0	4.0 / 5.7	5.1	5.1 / 5.0	5.7	3.2	5.7	3.2
			biggest	26.0 / 24.0	18.3 / 36.0	18.3 / 27.9	30.0 / 32.0	17.8 / 24.0	18.3	21.0 / 18.3	18.3	18.3
		IDr mm	smallest	1.0	1.0	1.0 / 1.3	1.3	1.3	1.3	1.0	1.3	1.0
			biggest	6.5 / 6.0	4.5 / 9.0	4.4 / 7.6	8.4	4.5 / 6.0	4.4	4.4	4.4	4.4
	Tw	SW	SW / SW, RW	SW, RW / SW	SW	SW	SW	SW	SW / SW, HW	SW	SW, HW	
Shrink Properties	Min Shrink Temp °C	100 / 110	110 / 100	80 / 90	110	110	100	100	100	100		
	Min Full Recovery Temp °C	135	135 / 125	110	135	135	125	135	125	135		
Certifications /Standards	UL											
	Halogen Free	— / CR only	● / CR Only				● / ●	— / CR only	●			
	RoHS	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	●	●		
	REACH	— / ●	— / ●	● / —				— / ●	●	●		
	ELV	● / —	● / ●	● / ●	● / ●	● / ●	● / ●	● / ●	●	●		
	SAE											
Colors ⁽¹⁾			  	 								
Tensile Strength MPa		≥10.3 / ≥10.4	≥10.3/≥10.4	≥10.3 / ≥10.4	≥10.3 / ≥10.4	≥10.3 / ≥10.4	≥10.0	≥10.3 / ≥10.4	≥10.4	≥10.4		
Ultimate Elongation %		≥250 / ≥200	≥250 / ≥200	≥300 / ≥200	≥250/≥200	≥250 / ≥200	≥250	≥250 / ≥200	≥200	≥200		
Volume Resistivity 1x10^ $\wedge$ n Ω-cm		≥14 / ≥12	≥14 / ≥12	≥14 / ≥12	≥13 / ≥12	≥13 / ≥12	≥12	≥14 / ≥12	≥12	≥12		
Flame Retardancy		Colors: ISO 6722; Clear: FMVSS302	Colors: ISO 6722; Clear: FMVSS302	Colors: ASTM 2671-21, Meth C, Clear: FMVSS302 ISO 6722	Black: ISO 6722; Clear: FMVSS302; ASTM 2671-21, Meth C	ISO 6722; ASTM 2671-21, Meth C; SAE J1128	FMVSS302	Black: ASTM 2671-21, Meth C, Clear: FMVSS302 ISO 6722	ASTM 2671-21, Meth C	ISO 6722; ASTM 2671-21, Meth C		

PO-XL: Polyolefin-Crosslinked HW: Heavy Wall MW: Medium Wall RW: Reduced Wall SW: Standard Wall W: White CR: Clear BK: Black PA: Polyamide EVA: Ethylene-Vinyl Acetate IIR: Isobutylene Rubber

⁽¹⁾ Other colors available on request

D U A L W A L L N O N - S P L I C E S E A L I N G	ET10	ET11 ET71	ET20	ET21 ET81	ET83	ET24	ET88	ET89	ET100 ET101	ET102	ET103 ET104
	Less Adhesive, Special Temps, Strain Relief, Back of Connector, Large Cables					Higher Abrasion / Electrical Insulation			Adhesive Tube / Tape	Butyl Mastic	Adhesive Shapes / Tube
	125	125	110	110	125	105	110	130	125	125	90 / 110
	-40	-55	-40	-55	-40	-55	-55	-55	-40	-40	-55 / -40
	PO-XL										
	Thin-wall, Flame Retardant	Semi-Flexible, Flame Retardant	Flexible, Flame Retardant	Flexible, Flame Retardant	Flexible, Flame Retardant	Heavy Wall	Medium Wall	Heavy-wall, Flame Retardant	-	-	-
	EVA	EVA / PA	EVA	EVA	EVA	EVA	EVA	EVA	PA	IIR	EVA / PA
	Low Viscosity, Thin	High Viscosity, Thin	High Viscosity, Thin	High Viscosity	Low Viscosity	Low Viscosity	High Viscosity	High Viscosity	High Viscosity	Non-Flowing	High Viscosity / Low Viscosity
	2:1, 3:1, 4:1, 5:1	3:1, 4:1, 5:1 / 4:1	3:1	3:1, 4:1, 5:1 / 3:1, 4:1	2:1, 3:1, 4:1	3:1, 4:1	3:1, 4:1	3:1, 4:1	See drawings	See drawings	See drawings
	3.2	3.2/4.0	3.2	3.0	1.2	9.0	8.0	9.0			
	52.0	52.0	50.8	69.9 / 52.0	50.8	260.0	140.0	265.0			
	1.0	1.0	1.0	1.0	0.6	3.0	2.0	3.0			
	20.0	13.0	20.0	25.4 / 13.0	25.4	85.0	42.0	75.0			
	SW	SW	SW	SW	SW	HW	MW	HW			
	90	80	80	90	90	-	-	-	120	-	-
	125	110	125	125	110	135	-	135	125	-	-
	●										
					●	●	●				● / ●
	●	● / ●	●	● / ●	●		●	●	● / ●	●	● / ●
	●		●	● / ●	●		●				● / ●
	●	● / ●	●	● / ●					● / ●	●	● / ●
				AS23053/4 Class 3							
	≥12	≥10.4	≥10.4	≥12.0 / ≥9.0	≥10.3	≥12	≥12.0	≥10.4	-	-	-
	≥300	≥300	≥200	≥300 / ≥200	≥200	≥400	≥350	≥200	-	-	-
	≥14	≥14	≥14	≥12	≥14	≥14	≥12	≥12	≥14	-	≥10
	Black: UL224, VW-1 Electrical rating: 600V, 125C	ASTM 2671-21, Meth C; UN-R118	UL224, VW-1	Colors: ASTM 2671-21, Meth C	Black: ISO 6722; UL224, All Tube	-	FMVSS302	UL224, VW-1	-	GMW 4217	-

PO-XL: Polyolefin-Crosslinked HW: Heavy Wall MW: Medium Wall RW: Reduced Wall SW: Standard Wall W: White CR: Clear BK: Black PA: Polyamide EVA: Ethylene-Vinyl Acetate IIR: Isobutylene Rubber

⁽¹⁾ Other colors available on request

SINGLE WALL TUBING

Product		ET00 ET70	ET01	ET02 ET72	ET04	ET05	ET06	ET07 ET77	ET08	ET09	ET40 ET41	ET49	ET50 ET54	
Main Features		Automotive & Appliance	Special Application	Special Application	Strain Relief	Fast Application	Air Conditioning Pipe	Appliance Halogen Free	Busbar	Busbar	Non-Shrink, Harness Protection	Special Application	Special Application	
Operational Temperatures	High °C	135	150	200	135	125	135	125	105	105	125 / 150	150	175	
	Low °C	-55	-75	-55 / -40	-55	-40	-55	-40	-40	-40	-40	-55	-55	
Jacket	Material type	PO-XL	Elastomeric Polymer	Fluoro-Elastomer	PO-XL	PO-XL	PO-XL	PO-XL	PO-XL	PO-XL	PUR	Kynar	Kynar	
	Characteristics	Flexible, Flame Retardant	Highly-Flexible, Highly Fluid Resistant	Highly-Flexible, Flame Retardant	Semi-Rigid, Flame Retardant	Thin-wall, Flexible, Low Shrink Temp	Hose / Pipe Protection, High Abrasion	Thin-wall, Flexible, Flame Retardant	Busbar Insulation, 6-24 kV class	Busbar Insulation, 1 kV class	Highly-Flexible, Flame Retardant / High Abrasion	Very Thin-wall, Flexible	Very Thin-wall, Semi-Rigid	
Available Sizes	Shrink Ratio		2:1, 3:1, 4:1 / 3:1, 4:1	2:1	2:1	2:1, 3:1	2:1	2:1, 3:1	2:1 / 2:1, 3:1, 4:1	2.5:1	2:1, 3:1	-	2:1	2:1
	IDe	smallest	1.2	2.4	3.2 / 2.4	3.2	1.6	19.0	0.9 / 1.4	25.0	15.0	-	1.2	1.2
		biggest	102.0 / 50.8	38.0	25.4 / 50.8	11.8	19.0	51.0	180.0 / 45.2	175.0	235.0	-	50.8	50.8
	IDr	smallest	0.5 / 0.6	1.2	1.6 / 1.2	1.6	0.8	6.0	0.5 / 0.6	10.0	6.0	1.6	0.6	0.6
		biggest	51.0 / 25.4	19.0	12.7 / 25.4	5.1	9.5	17.0	91.0 / 22.5	75.0	105.0	30.1 / 30.9	25.4	25.4
Tw		SW, HW / SW	SW, RW	SW	SW	SW	SW	TW	SW	SW	SW	SW	SW	
Shrink Properties	Min Shrink Temp °C		90 / 95	150	— / 150	110	65	-	90	90	125	-	-	— / 150
	Min Full Recovery Temp °C		125 / 110	175	175	135	95	125	125 / 110	125	-	-	175	175
Certifications /Standards	UL		E515400 / —		● / ●				●		E515400			— / E515400
	Halogen Free						●		●	●		● / ●		
	RoHS		● / ●	●	●	●	●	●	●	●	●	● / ●	●	● / ●
	REACH		● / ●			●	●				● / ●	●	● / ●	
	ELV		● / ●	●					●		●			
	SAE		SAE AS23053/5, Class 1	SAE AS23053/16	SAE AS23053/13								SAE AS23053/18 Class 2	SAE AS23053/8
Colors ⁽¹⁾														
Tensile Strength MPa		≥10.4	≥11.7	≥8.2	≥13.8	≥10.4	≥15	≥10.4	≥14	≥10.4	≥40	≥25.4	≥35.0 / ≥34.5	
Ultimate Elongation %		≥200	≥250	≥250	≥200	≥200	≥400	≥200	≥400	≥300	≥500	≥300	≥150	
Volume Resistivity 1x10 ⁿ Ω-cm		≥14	≥9	≥9	≥14	≥14	≥14	≥14	≥13	≥12	-	≥11	≥13	
Flame Retardancy		Black: UL224, VW-1 Electrical rating: 600V, 125C	ASTM 2671-21, Meth C	ASTM 2671-21, Meth A; ASTM 2671-21, Meth D; UL224 VW-1	ASTM 2671-21, Meth C	Black: UL224, VW-1	-	colors: UL224, VW-1; Clear: FMVSS302	ANSI C37.20 IEEE-27	ANSI C37.20 IEEE-27	UL94, HB Type B	ASTM 2671-21, Meth A	ASTM 2671-21, Meth A; UL224, VW-1	

(1) Other colors available on request

S I N G L E W A L L T U B I N G	ET51 ET55	ET52 ET56	ET60 ET61	ET62	ET63	ET66	ET73	ET78	ET79	ET92 ET93	ET94	ET95	ET96	ET97
	Labeling	Labeling	Non-Shrink	Cold Shrink	Non-Shrink	Special Application	Fast Application	Strain Relief	High Voltage	Special Application	Brake / Fuel Lines	Auto Lighting/ Seatbelts	Appliance Phosphorus Free	High Temp
	125	135	100 / 125	90	100	120	105	110	130	260	105	125	125	150
	-55 / -40	-55	-40	-60	-40	-40	-55	-55	-55	-80	-40	-40	-40	-55
	PO-XL	PO-XL	EPDM	EPDM	PA6	TPE	PO-XL	PO-XL	PO-XL	PTFE	PO-XL	PO-XL	PO-XL	PO-XL
	Thin-wall, Flexible, Flame Retardant, Highly Printable	Thin-wall, Flexible, Flame Retardant, Highly Printable	Highly-Flexible	Heavy-wall, Flexible, Flame Retardant	Semi-Rigid	Thin-wall, Flexible, Flame Retardant	Highly-Flexible, Low Shrink Temp	Medium-wall, Semi-Rigid	Heavy-wall, Flame Retardant	Non - Shrinkable / Shrinkable	Semi-Rigid	Semi-Flexible	Flexible, Flame Retardant	Flexible, Flame Retardant
	2:1, 3:1	2:1, 3:1	-	2:1	-	-	2:1	3:1, 4:1	3:1, 4:1	-	-	3:1	-	2:1
	1.6	1.6	-	55.0	-	-	1.1	22.0	9.0	— / 6.2	-	38.1	-	1.2
	76.2	76.2	-	55.0	-	-	80.0	33.0	265.0	— / 19.1	-	38.1	-	50.8
	0.8	0.8	28.1 / 3.0	24.0	1.0	3.3	0.5	6.0	3.0	0.3 / 1.6	-	12.7	-	0.6
	38.1	38.1	28.1 / 4.0	24.0	10.0	5.0	40.0	8.0	75.0	8.4 / 5.3	-	12.7	-	25.4
	TW	TW	SW	HW	SW	TW	SW, RW	MW	HW	SW, TW, LW	SW	SW	SW	SW
	— / 95	— / 95	-	-	-	-	85	-	-	-	90	90	90	90
	110	110	-	-	-	-	100	110	135	-	110	110	110	110
		● / —								● / ●				
	● / ●					●	●				●	●	●	
	● / ●	● / ●		●			●		●	● / ●	●	●	●	●
	● / ●	● / ●		●			●			● / ●	●	●	●	●
							●				●	●	●	●
	SAE AS5942, MIL-STD-202	SAE AS23053/5, Class 1								SAE AS23053/12, Class 5				
	≥10.3 / ≥10.4	≥10.3 / ≥10.4	≥12.8 / ≥10.0	≥9.6	-	-	≥12.4	≥12.0	≥10.4	≥17.3	≥12	≥12	-	≥10.4
	≥200	≥200	≥410 / ≥250	≥650	-	-	≥200	≥350	≥200	≥200	≥400	≥400	-	≥200
	≥14	≥14	-	-	-	-	≥12	≥12	≥14	≥15 / ≥18	≥12	≥12	-	-
	ASTM 2671-21, Meth C	ASTM 2671-21, Meth C	-	UL94, HB Type B	-	FMVSS302	FMVSS302	FMVSS302	UL224, VW-1	UL224, VW-1	FMVSS302	FMVSS302	-	ASTM 2671-21, Meth C

PO-XL: Polyolefin-Crosslinked HW: Heavy Wall MW: Medium Wall TW: Thin Wall LW: Light Wall RW: Reduced Wall SW: Standard Wall W: White C CR: Clear BK: Black PA: Polyamide EVA: Ethylene-Vinyl Acetate
IIR: Isobutylene Rubber

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