HEATSHRINKABLE GLAND APPLICATIONS

Rail Equipment Cable Entry Apertures may vary depending on the equipment age, therefore, it is highly recommended that this is taken into account when selecting a suitable gland from the table below.

EQUIPMENT P.A.D.S No	EQUIPMENT DESCRIPTION	GLAND SELECTION OPTIONS			
		S/Steel Adaptor	Screw-Fit Brass Adaptor	Clear-Fit Brass Adaptor	Clear-Fit Standard Gland
87/37887-88-90	DAC / TITAN Weatherproof Telephones	54/037050		54/000099	
	RACAL Weatherproof Telephones	54/037051		54/000099	
86/43476-86	Adtranz TI-21 Tuning Units	54/001004		54/000095	54/109175
86/43743-44-49-67-73	ML Aster Tuning Units	54/037058			54/109175
86/9130 to 86/9137	Dorman LED Standard Signal Heads	54/001003			54/109176
86/28779	Automatic Open, Controlled Locally (AOCL Light Units)	54/037058			54/109175
86/1258-59	Fibre Optic Stencil & Theatre Indicators	54/037058			54/109175
86/41070-71	Position Light Ground Signals	54/037068	54/000095		
86/1262	Signal House Optic Fibre Lit Signals type PL1W, PL1R and PL2R			54/000097	
86/32113	Clamplock & Detector Mechanism Assembly	54/001004	54/000097		54/109175
86/32521 & 86/32541	Electro Hydraulic Power Pack	54/037059		54/000096	
86/41451	Signal Post Replacement Switch	54/037057	54/000097		
86/46305-310-315	Double Arm Treadles		54/000098		
86/46300	Single Arm Treadles	54/037057	54/000098		54/109175
86/32650	Train Operated Points Accumulator Units	54/037057		54/000097	
86/30000	Electrical Detector Boxes	54/037055	54/000098	54/000097	
88/19195	Train Stops	54/037055	54/000098	54/000097	
86/7273 to 76	4 & 6 W Rotary Controllers	54/037055	54/000098	54/000097	
	WSL Old Style P3 Impedance Bonds	54/001001	54/000098		
86/17023-24	WSL & Howells type 2 & 3 Impedance Bonds (4 x 20mm holes)	54/001001		54/000094	
86/17024	WSL & Howells type 3 Impedance Bond (26mm holes)	54/001002		54/000092	
86/17023	WSL type 2 Impedance Bond (26mm Hole)	54/037068		54/000095	
86/17023	Howells type 2 Impedance Bond (Large 26mm hole)	54/037068		54/000092	
62/6736-37	Howells Standard & Extra Strength AWS Electro Inductor	54/037068		54/000092	
62/6781 & 62/6785	Howells Standard & Extra Strength AWS Suppressor Inductor	54/037058	54/000095	54/000093	
88/381 & 88/383	Alstom HW Point Machines	54/037059	54/000098	54/000096	
88/12008-88/27240-88/81253	WSL Style 63 Point Machines	54/001003			54/109164
55/121369-370	Point Heater Transformer 20mm Port	54/037056		54/000094	
55/121369-370	Point Heater Transformer 26mm Port	54/037068		54/000095	54/109175
55/121369-370	Point Heater Transformer 32mm Port	54/037059		54/000096	

GLANDS FOR AXLE COUNTERS

P.A.D.S Ref. No	Graybar Part No	Application	Max Cable Dia	Max Gland Inside Dia	Thread Length mm	Thread Type
0086/001080	GBK 1568	Alcatel type - Mushroom head cable gland size A	14mm	14.5mm	10	M20
0086/001081	GBK 1569	Alcatel type - Mushroom head cable gland size B	15mm	15.5mm	10	M28
0086/001082	GBK 1570	Alcatel type - Mushroom head cable gland size C	26mm	26.5mm	10	M38

HEATSHRINKABLE GLANDS

Cables terminated into railway equipment must be protected against the risk of external forces dragging at the cable connections or ingress of moisture. Damaged cable connections caused by strain or corrosion will result in equipment failure.

CES RANGE
Standard Heatshrinkable cable entry support and sealing gland fitted with range taking heavy duty, sealant lined heatshrinkable collar, 'O' ring and male nylon bush.

BRASS ADAPTER RANGE
Type CES Heatshrink body fitted with brass adapter designed to fit selected railway equipment.

STAINLESS STEEL ADAPTER RANG
Type CES Heatshrink body fitted with stainless steel adapter designed to fit selected railway equipment.

HEATSHRINKABLE CABLE SEALING GLANDS TYPE C.E.S.
Graybar Heatshrinkable cable Glands are designed to ensure robust cable support and seal against moisture ingress for the majority of unarmoured Railway cables.The Glands provide a flame retarded adhesive lined body with a high-density nylon insert together with a male bush with neoprene 'O' ring. The high shrink ratio Heatshrinkable collar enables suitability for a range of cable diameters.

P.A.D.S Ref. No	Cable Diameter Range	Max Gland Inside Dia	Max Plate Thickness	Thread Thickness	Entry Hole Diameter
54/109179	3mm - 12mm	19mm	6mm	25mm	26mm
54/109175	6mm - 17mm	19mm	6mm	25mm	26mm
54/109176	12mm - 28mm	28mm	8mm	34mm	35mm
54/109164	19mm - 40mm	40mm	10mm	50mm	51mm
54/109181	36mm - 65mm	73mm	18mm	86.5mm	88mm

MODIFIED SEALING GLANDS SUPPLIED WITH BRASS ADAPTED THREADS
This range is the standard CES Heatshrinkable cable gland incorporating brass threaded adapters, locknuts & washers. The brass adapters are designed to be suitable for a wide range of Railway equipment, with screwed or unscrewed cable entry holes.

P.A.D.S Ref. No	Max Cable Diameter	Max Gland Inside Dia	Thread Length	Thread Type
54/000092	18mm	19mm	30mm	M22
54/000093	18mm	19mm	42mm	M22
54/000094	15mm	16mm	20mm	M18
54/000095	20mm	21mm	30mm	M25
54/000096	25mm	26mm	25mm	M30
54/000097	25mm	26mm	12mm	M30
54/000098	28mm	28mm	6mm + 5mm	M32 screw-fit only
54/000099	13.5mm	14mm	25mm	M17.5

MODIFIED SEALING GLANDS SUPPLIED WITH STAINLESS STEEL ADAPTED THREADS
This range is the standard CES Heatshrinkable cable gland incorporating stainless steel threaded adapters, locknuts & washers. The stainless steel adapters are designed to be suitable for a wide range of Railway equipment, with screwed or unscrewed cable entry holes.

P.A.D.S Ref. No	Max Cable Diameter	Max Gland Inside Dia	Thread Length	Thread Type
54/001001	13mm	13.4mm	20mm	M18
54/001002	15mm	16mm	20mm	1/2" BSP (Dia 20.96mm)
54/001003	24mm	25mm	20mm	38mm conduit
54/001004	24mm	25mm	10mm	32mm conduit
54/001005	14mm	14.5mm	12mm	20mm conduit
54/037050	14mm	14.5mm	15mm	20mm conduit
54/037051	14mm	14.5mm	15mm	20mm conduit
54/037055	27mm	28mm	15mm	1" BSP (Dia 33.25mm)
54/037056	14mm	14.5mm	10mm	M18
54/037057	20mm	21mm	15mm	3/4" BSP (Dia 26.44mm)
54/037058	18mm	19mm	20mm	25mm conduit
54/037059	24mm	25mm	20mm	32mm conduit
54/037067	14mm	14.5mm	35mm	20mm conduit
54/037068	18mm	19mm	25mm	25mm conduit
55/021066	28mm	29mm	6+5mm shoulder	M32