



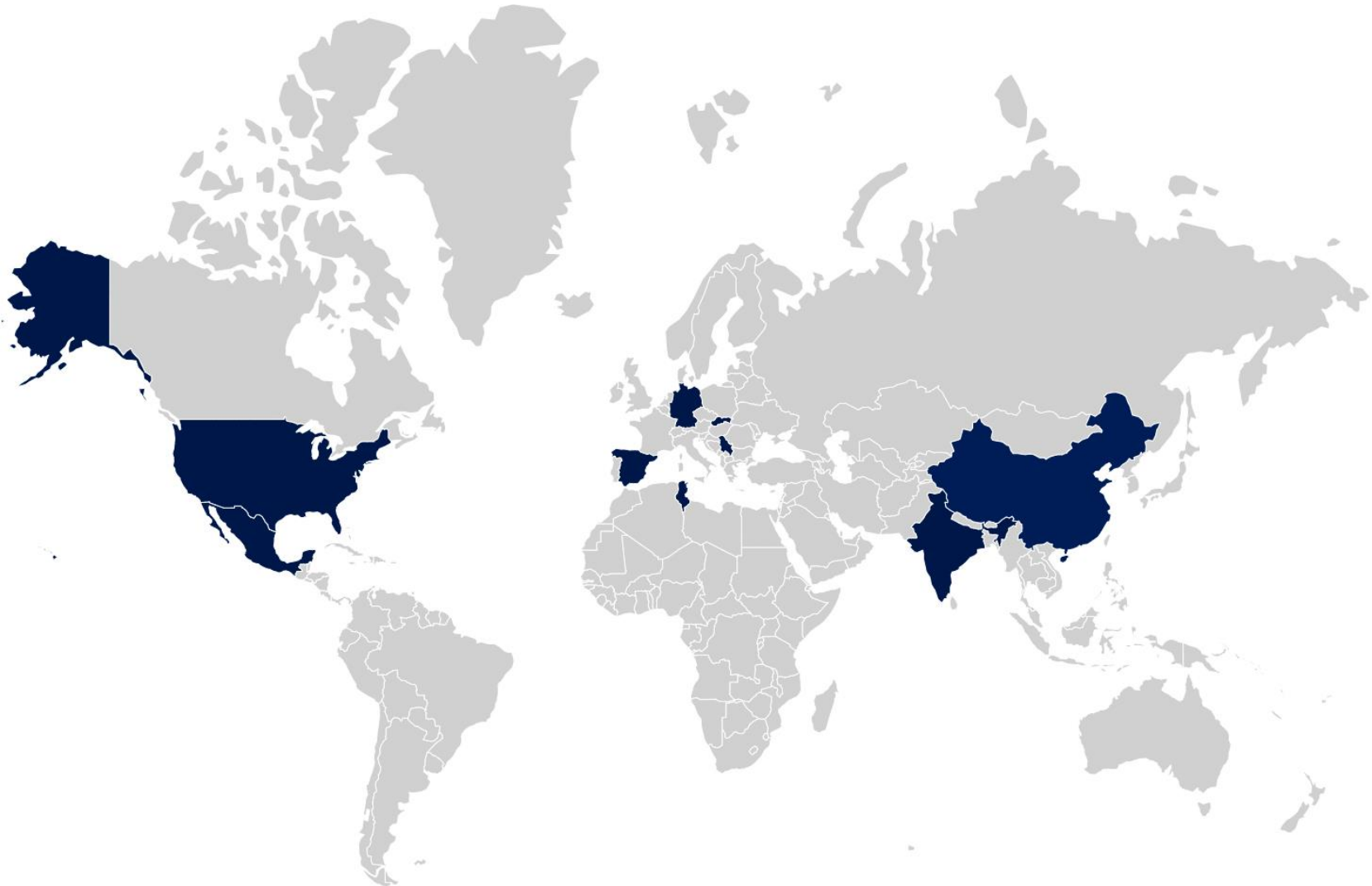
CATALOGUE

AUTOMOTIVE LIGHTING SOLUTION



CEMM THOME
Amphenol *AUTOMOTIVE*

CEMM THOME GLOBAL PRESENCE



- MANUFACTURING PLANT
- DESIGN ENGINEERING
- SALES OFFICE

- ● ● Monterrey, Mexico 10 000 m²
- Chennai, India 1,200 m²
- ● ● Presov, Slovakia 20,000 m²
- Changzhou, China 7,500 m²
- Novi, MI USA
- Barcelona, Spain
- El-Fahs, Tunisia 500 m²
- Serbia 7,000 m²
- Cologne, Germany

DESIGN DEVELOP PRODUCT

CONNECTORS

Pass thru, Quarter turn, Snap-in

SOCKETS

Multiple solutions for a variety of bulbs

GROMMETS

Extensive number of ways, diameters, seals...

AMBIENT LIGHTING

Light guide, LED system, Backlight ...





WIRE HARNESS






Crimped cables, over molds, gutters, shrink tubes, plugs, sockets, connectors, grommets...



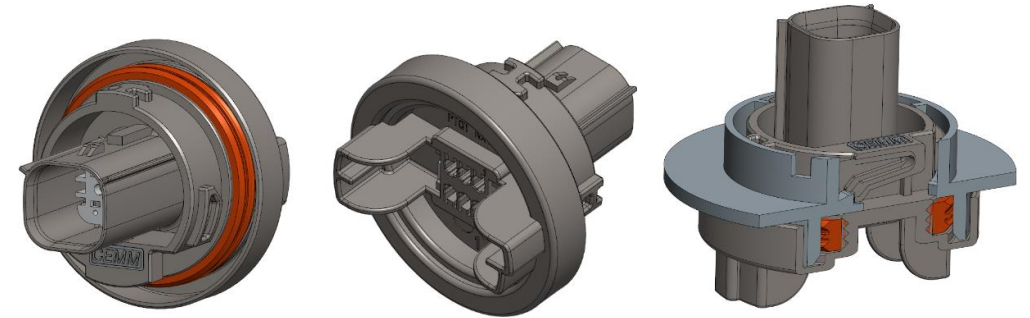
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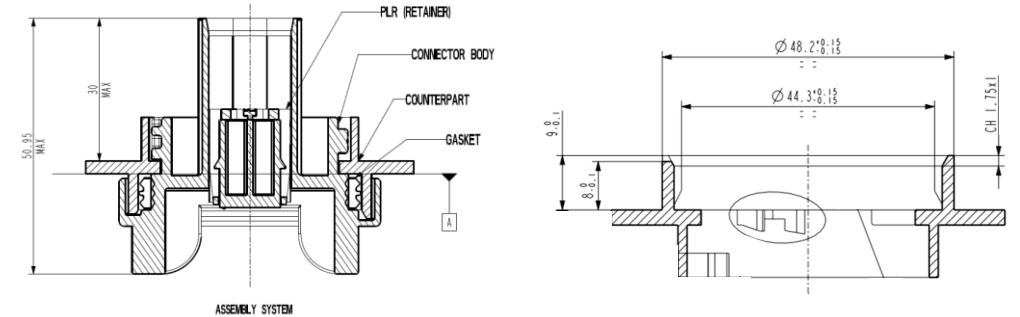
IDENTIFICATION							DETAILED DATA (MM)						
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Sub-Assembly Number	Key	Seal Diameter Max	Mating Connector Molex MX150	Body Material & Color	Terminal Detail	Applicable Norm	Comments
6-Ways PTQT Connector		Axial pass-through connector	Sealed	Clockwise	0007148	0007346	A	43.5	33472-0601	PBT GF20 Black	MX150 1.5 mm Blade Terminal: 33000-1003 (0.35 mm ²) 33000-1002 (0.75-1 mm ²) 33000-1001 (1.50 mm ²)	GMW3191 USCAR-2	Seals with mating connector & counterpart
						0007347	B		33472-0602				
						0007348	C		33472-0668				
						0007349	D		33472-0669				
12/16-Ways PTQT Connector		Axial pass-through connector	Sealed	Clockwise	0007276	0007281	A	53.5	33472-1201	PBT GF20 Black	MX150 1.5 mm Blade Terminal: 33000-1003 (0.35 mm ²) 33000-1002 (0.75-1 mm ²) 33000-1001 (1.50 mm ²)	GMW3191 USCAR-2	12 Ways connector Seals with mating connector & counterpart
						0007350	B		33472-1202				
						0007351	C		33472-1253				
						0007352	D		33472-1254				
					0007299	0007353	A	53.5	33472-1601	PBT GF20 Black	33000-1003 (0.35 mm ²) 33000-1002 (0.75-1 mm ²) 33000-1001 (1.50 mm ²)	GMW3191 USCAR-2	16 Ways connector Seals with mating connector & counterpart
						0007354	B		33472-1602				
						0007355	C		33472-1767				
						0007356	D		33472-1768				
6/8- Ways PTQT - NXT Connector		Axial pass-through connector	Sealed No partition line	Clockwise	0007514	0007515	A	52	33472-0601	PBT GF20 Black	MX150 1.5 mm Blade Terminal: 33000-1003 (0.35 mm ²) 33000-1002 (0.75-1 mm ²) 33000-1001 (1.50 mm ²)	GMW3191 USCAR-2	6 Ways connector Seals with mating connector & counterpart
						0007516	B		33472-0602				
						0007517	C		33472-0668				
						0007518	D		33472-0669				
					0007772	0007773	A	52	33472-4806	PBT GF20 Black	33000-1003 (0.35 mm ²) 33000-1002 (0.75-1 mm ²) 33000-1001 (1.50 mm ²)	GMW3191 USCAR-2	8 Ways connector Seals with mating connector & counterpart
						0007774	B		33472-4807				
						0007775	C		33472-4881				
						0007776	D		33472-4882				
12- Ways PTQT - NXT Connector		Axial pass-through connector	Sealed No partition line	Clockwise	0007480	0007481	A	62	33472-1201	PBT GF20 Black	MX150 1.5 mm Blade Terminal: 33000-1003 (0.35 mm ²) 33000-1002 (0.75-1 mm ²) 33000-1001 (1.50 mm ²)	GMW3191 USCAR-2	Seals with mating connector & counterpart
						0007482	B		33472-1202				
						0007483	C		33472-1253				
						0007484	D		33472-1254				

IDENTIFICATION							DETAILED DATA (MM)						
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Sub-Assembly Number	Key	Seal Diameter Max	Mating Connector	Body Material & Color	Terminal Detail	Applicable Norm	Comments
12-Ways PT Snap In Connector		Axial pass-through connector	Sealed	Snap In	0007286	0007304	A	58.95 x 30.5	Molex MX 150 33472-1201	PBT GF20 Black	MX150 1.5 mm Blade Terminal: 33000-1003 (0.35 mm ²) 33000-1002 (0.75-1 mm ²) 33000-1001 (1.50 mm ²)	USCAR-2	Seals with mating connector & counterpart
14-Ways Hybrid Connector		Axial pass-through connector	Sealed	Snap In	0001676	0007238	A	59.25 x 30.7	Tyco 969 870	PBT GF20 Black	TE Automotive Flat Pin 2.8 mm (6 ways): 2-964292-1 (0.2 – 0.5 mm ²) 2-964294 -1 (0.5 – 1.0 mm ²) 2-964296 -1 (> 1.0 – 2.5 mm ²)	CDC 4.3 Psi	Long lock Seals with mating connector
						0007239		59.25 x 30.7	Sumitomo VW PN: 3C0.973.737	PBT GF20 Black	Flat Pin: 1.5 mm (8 ways): 964265 -2 (0.2 – 0.5 mm ²) 964267-2 (0.5 – 1.0 mm ²)	CDC 4.3 Psi	Short lock Seals with mating connector
LED 2-Ways Connector		Axial connector	Potted sealed	Clip on	0007082	0007039	A	13.10	Housing Mounting	PC Black	12064971 (0.35 – 0.50 mm ²) 12047767 (0.75 – 1.0 mm ²)	CDC 1.5 Psi	
6-Ways Volvo Connector		Axial pass-through connector	Sealed	Clockwise	0100047	0001086	A	42.3	Yazaki: 7282-5553-10	PBT Grey	Supplier reference: FCI Automotive 211CL2S1160(0.35-0.75mm ²) 211CL2S2160(1.0 -2.0 mm ²)	CDC Volvo	Restricted FCI Blade terminals Seals with mating connector
AMPHENOL FAMILY													
16- Ways Snap-In Connector		Axial pass-through connector	Sealed	Snap In	ADOC-C91160074	20204075	A	N/A	Molex PN 33472-1601	PBT GF Black	MX150 1.5 mm Blade Terminal: 33000-1003 (0.35 mm ²) 33000-1002 (0.75-1.0 mm ²) 33000-1001 (1.50 mm ²)	USCAR-2	Amphenol Family

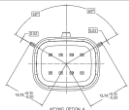
Description	Sealed male connector, Pass-Thru-Quarter Turn, Dual Rows 6 ways, Keys A and B
Temperature range operating	-40°C to 125°C
Connector & PLR material	PBT GF20 (Black) & PBT GF20
Gasket	Silicone 40/50 shore A
Male terminal	Molex 1.5 mm Blade (MX150)
Wire gauge allowed	0.35mm ² , 0.5mm ² , 0.75mm ² , 1.0mm ² and 1.5mm ² , refer to Molex drawing and crimping spec.
Double crimping	No
Under standard	USCAR-2 & GMW3191

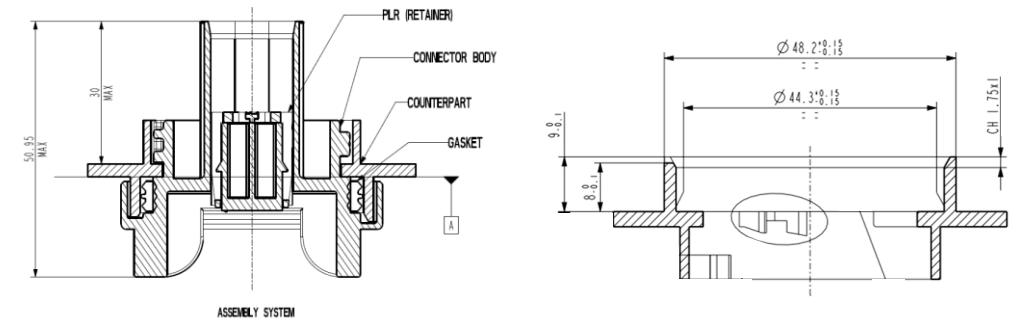


Sub assembly number	Key	Circuits (max)	Picture	Connector mating compatible Molex	Compatible EWCAP drawing
0007515	A	6 ways (3x2)		MX 150 33472-0601	150-S-006-2-Z02 REV.C
0007516	B			MX 150 33472-0602	
0007517	C			MX 150 33472-0668	
0007518	D			MX 150 33472-0669	

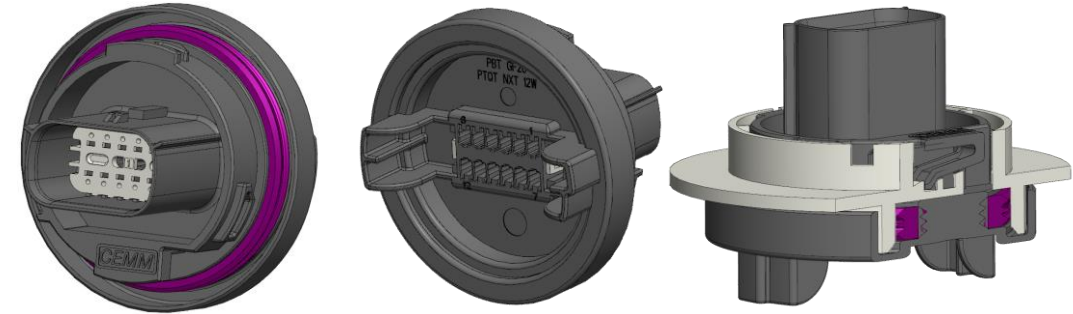


Description	Sealed male connector, Pass-Thru-Quarter Turn, Dual Rows 8 ways, Keys A and B
Temperature range operating	-40°C to 125°C
Connector & PLR material	PBT GF20 (Black) & PBT GF20
Gasket	Silicone 40/50 shore A
Male terminal	Molex 1.5 mm Blade (MX150)
Wire gauge allowed	0.35mm ² , 0.5mm ² , 0.75mm ² , 1.0mm ² and 1.5mm ² , refer to Molex drawing and crimping spec.
Double crimping	No
Under standard	USCAR-2 & GMW3191

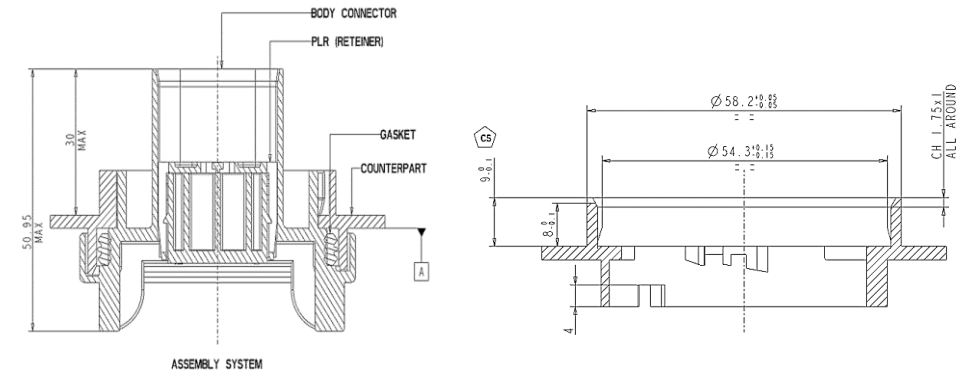
Sub assembly number	Key	Circuits (max)	Picture	Connector mating compatible Molex	Compatible EWCAP drawing
0007773	A	8 ways (4x2)		MX 150 33472-4806	150-S-008-2-Z02 REV.C



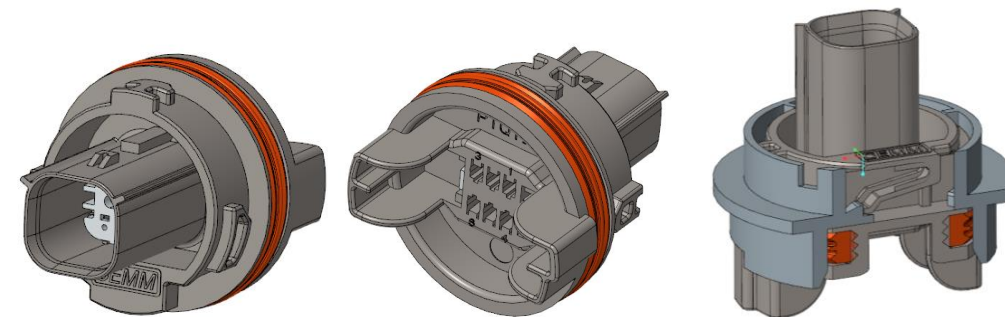
Description	Sealed male connector, Pass-Thru-Quarter Turn, Dual Rows 12 ways, Keys A and B
Temperature range operating	-40°C to 125°C
Connector & PLR material	PBT GF20 (Black) & PBT GF20
Gasket	Silicone 40/50 shore A
Male terminal	Molex 1.5 mm Blade (MX150)
Wire gauge allowed	0.35mm ² , 0.5mm ² , 0.75mm ² , 1.0mm ² and 1.5mm ² , refer to Molex drawing and crimping spec.
Double crimping	No
Under standard	USCAR-2 & GMW3191



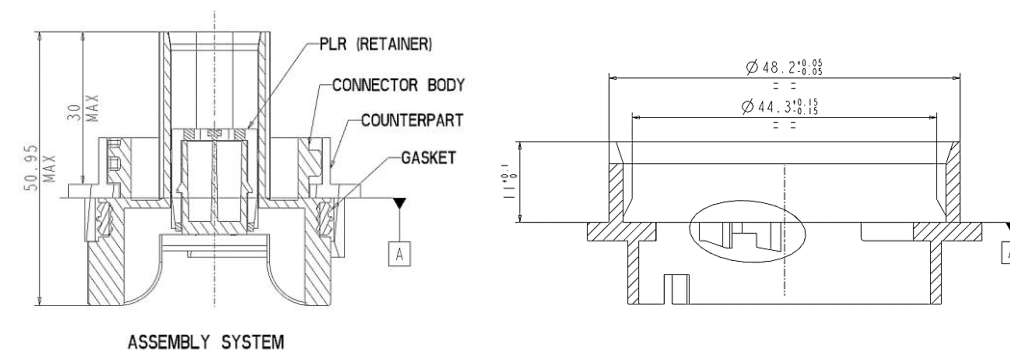
Sub assembly number	Key	Circuits (max)	Picture	Connector mating compatible Molex	Compatible EWCAP drawing
0007481	A	12 ways (6x2)		MX 150 33472-1201	150-S-012-2-Z01 REV.D
0007482	B			MX 150 33472-1202	
0007483	C			MX 150 33472-1253	
0007484	D			MX 150 33472-1254	



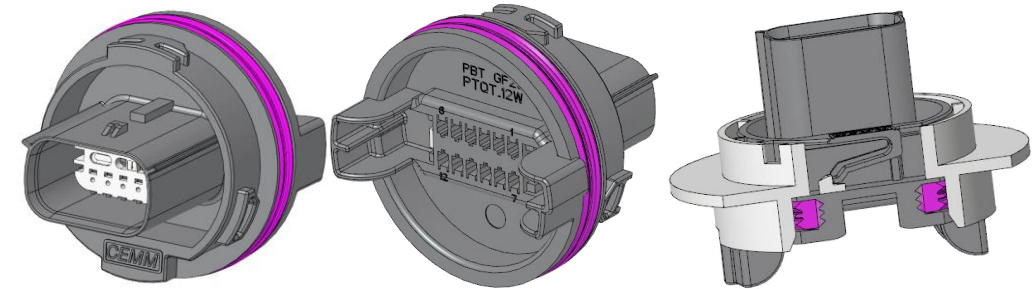
Description	Sealed male connector, Pass-Thru-Quarter Turn, Dual Rows, 6 ways, Keys A, B, C and D
Temperature range operating	-40°C to 125°C
Connector & PLR material	PBT GF20 (Black) & PBT GF20
Gasket	Silicone 40/50 shore A
Male terminal	Molex 1.5 mm Blade (MX150)
Wire gauge allowed	0.35mm ² , 0.5mm ² , 0.75mm ² , 1.0mm ² and 1.5mm ² , refer to Molex drawing and crimping spec.
Double crimping	No
Under standard	USCAR-2 & GMW3191



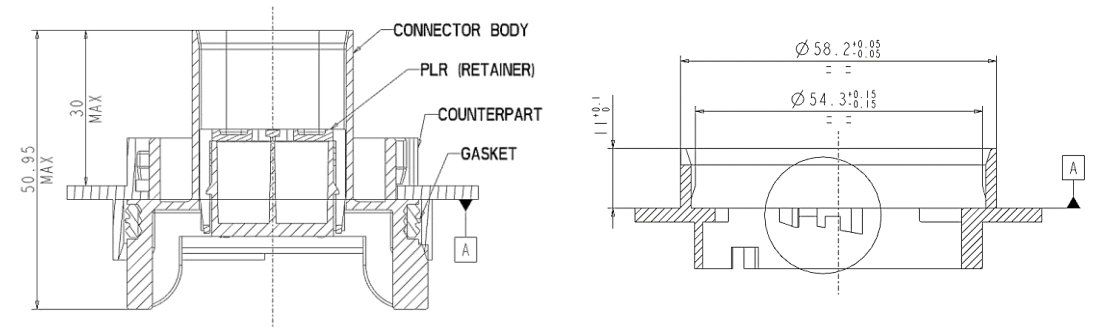
Sub assembly number	Key	Circuits (max)	Picture	Connector mating compatible Molex	Compatible EWCAP drawing
0007346	A	6 ways (3x2)		MX 150 33472-0601	150-S-006-2-Z02 REV.C
0007347	B			MX 150 33472-0602	
0007348	C			MX 150 33472-0668	
0007349	D			MX 150 33472-0669	



Description	Sealed male connector, Pass-Thru-Quarter Turn, Dual Rows 12 ways, Keys A, B, C and D
Temperature range operating	-40°C to 125°C
Connector & PLR material	PBT GF20 (Black) & PBT GF20
Gasket	Silicone 40/50 shore A
Male terminal	Molex 1.5 mm Blade (MX150)
Wire gauge allowed	0.35mm ² , 0.5mm ² , 0.75mm ² , 1.0mm ² and 1.5mm ² , refer to Molex drawing and crimping spec.
Double crimping	No
Under standard	USCAR-2 & GMW3191

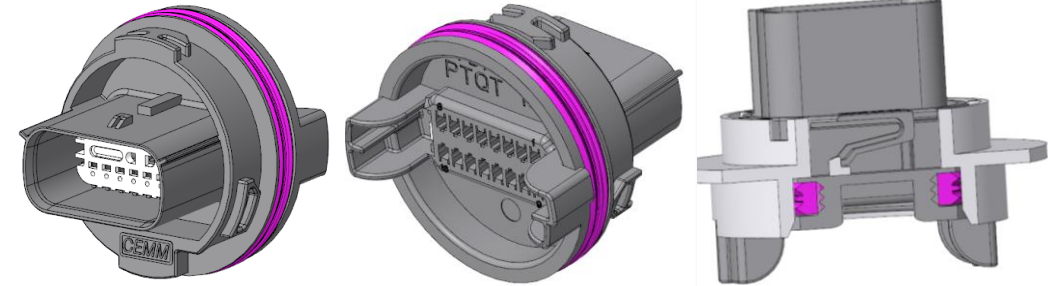


Sub assembly number	Key	Circuits (max)	Picture	Connector mating compatible Molex	Compatible EWCAP drawing
0007281	A	12 ways (6x2)		MX 150 33472-1201	150-S-012-2-Z01 REV.C
0007350	B			MX 150 33472-1202	
0007351	C			MX 150 33472-1253	
0007352	D			MX 150 33472-1254	

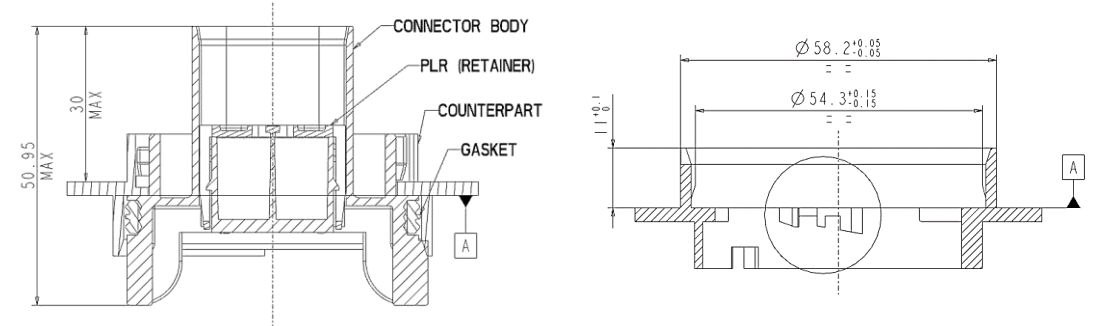


SERIAL PRODUCTION SEALED VALIDATED

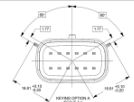
Description	Sealed male connector, Pass-Thru-Quarter Turn, Dual Rows 16 ways, Keys A, B, C and D
Temperature range operating	-40°C to 125°C
Connector & PLR material	PBT GF20 (Black) & PBT GF20
Gasket	Silicone 40/50 shore A
Male terminal	Molex 1.5 mm Blade (MX150)
Wire gauge allowed	0.35mm ² , 0.5mm ² , 0.75mm ² , 1.0mm ² and 1.5mm ² , refer to Molex drawing and crimping spec.
Double crimping	No
Under standard	USCAR-2 & GMW3191

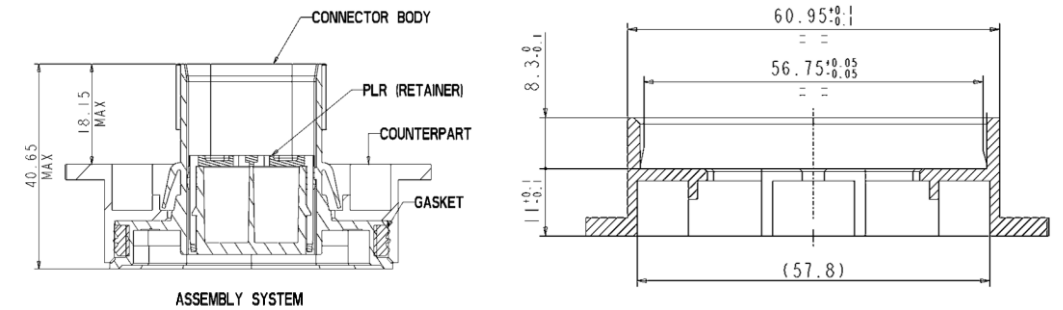
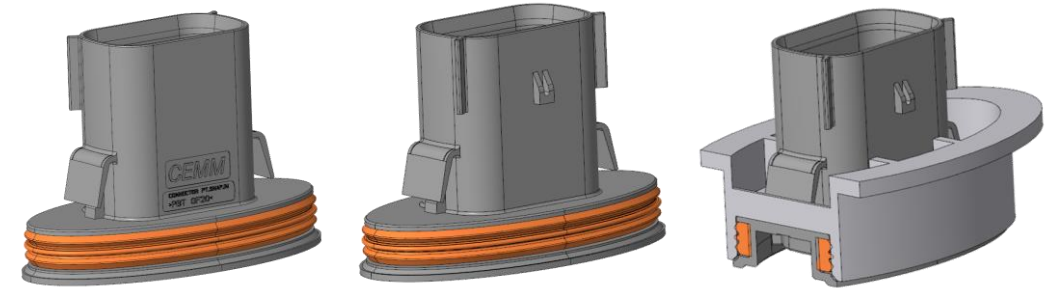


Sub assembly number	Key	Circuits (max)	Picture	Connector mating compatible Molex	Compatible EWCAP drawing
0007353	A	16 ways (8x2)		MX 150 33472-1601	150-S-016-2-Z01 REV.C
0007354	B			MX 150 33472-1602	
0007355	C			MX 150 33472-1767	
0007356	D			MX 150 33472-1768	

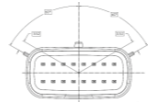


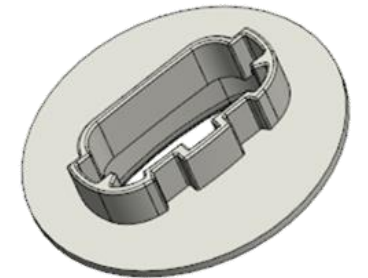
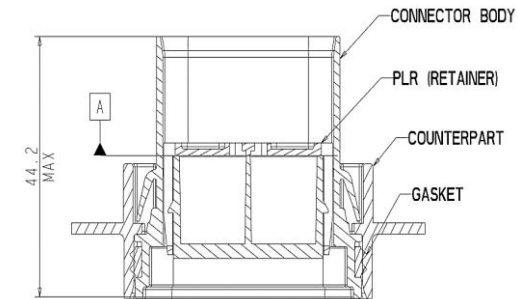
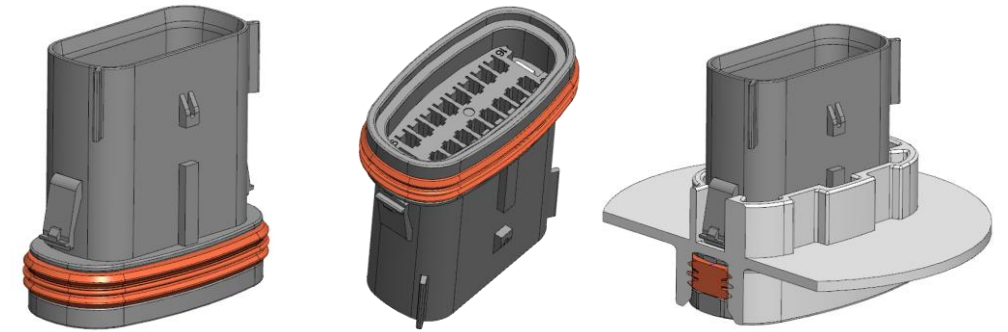
Description	Sealed male connector, PT Snap-In, Dual Rows 12 ways, Key A.
Temperature range operating	-40°C to 125°C
Connector & PLR material	PBT GF20 (Black) & PBT GF20
Gasket	Silicone 40/50 shore A
Male terminal	Molex 1.5 mm Blade (MX150)
Wire gauge allowed	0.35mm ² , 0.5mm ² , 0.75mm ² , 1.0mm ² and 1.5mm ² , refer to Molex drawing and crimping spec.
Double crimping	No
Under standard	USCAR-2






Sub assembly number	Key	Circuits (max)	Picture	Connector mating compatible Molex	Compatible EWCAP drawing
0007304	A	12 ways (6x2)		MX 150 33472-1201	150-S-012-2-Z01 REV.C











Description	Sealed male connector, PT Snap-In, Dual Rows 16 ways, Key A.
Temperature range operating	-40°C to 125°C
Connector & PLR material	PBT GF
Gasket	Silicone 40/50 shore A
Male terminal	Molex 1.5 mm Blade (MX150)
Wire gauge allowed	0.35mm ² , 0.5mm ² , 0.75mm ² , 1.0mm ² and 1.5mm ² , refer to Molex drawing and crimping spec.
Double crimping	No
Under standard	USCAR-2

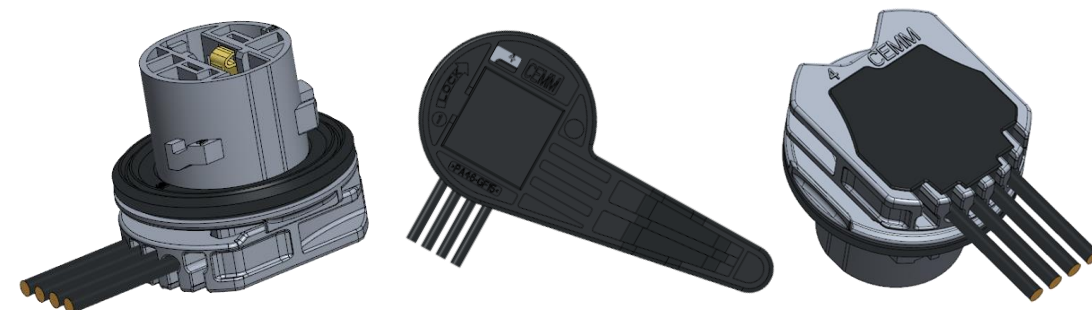
Sub assembly number	Key	Circuits (max)	Picture	Connector mating compatible Molex	Compatible EWCAP drawing
20204066	A	16 ways (8x2)		MX 150 33472-1601	Base on 150-S-016-2-Z01 REV.C



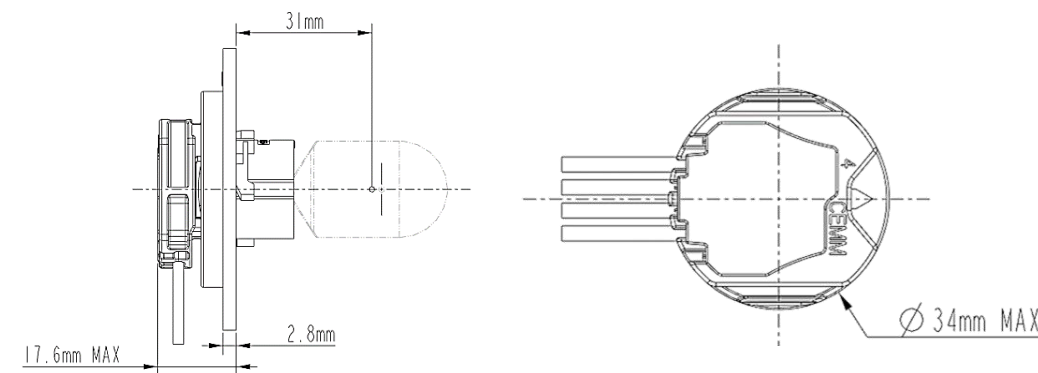
IDENTIFICATION							DETAILS (MM)			BULB			BODY		TERMINAL		
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Part Number	Lug Pattern	Focal Length	Seal Plane Diameter	CAP IEC-60061	Filament	Category ECE	Color	Material	Material and cross section	Applicable Norm	Comments
T20		Right angle wired socket	Sealed	Clockwise	0006136	0006131	T1A	31	33.70	W3x16d	Single	W21W	Black	PA46 GF15	CuSn6 Pre-Sn 0.5 to 2 mm ²	USCAR-15	
						0006903							Grey				
					0007543	0007544	T1B	31	33.70	W3x16d	Single	W21W	Black				
					0006137	0006132	T2A	31	33.70	WX3x16d	Single	WY21W	Black				
						0006904							Grey				
					0006138	0006133	T3A	31	33.70	W3x16q	Dual	W21/5W	Black				
0006351	Grey																
0006497	0006496	T3B	31	33.70	W3x16q	Dual	W21/5W	Black									
0006509	Grey																
T20 - I		Right Angle Wired Socket	Sealed	Clockwise	0007326	0007321	T2-I	31	33	W3x16d	Single	W21W	Black	PA46 GF15	CuSn6 Pre-Sn 0.5 to 2 mm ²	USCAR-15	Lug Pattern and counterpart compatible benchmarking
																	0007327
T20 Handle		Right angle	Sealed	Clockwise	0007307	0007305	N/A	N/A	N/A	N/A	N/A	N/A	Black	PA46 GF15	N/A		Handle for Socket T20 potted sealed. Upon requirement Handle could be adjusted for any customer demand.
T20 FL22		Right Angle Wired Socket	Sealed	Clockwise	0007405	0007408	T1A	22	33.6	W3x16d	Single	W21W	Black	PA46 GF15	CuSn6 Pre-Sn 0.5 to 2 mm ²	USCAR-15	
					0007407	0007410	T3A	22	33.6	W3x16q	Dual	W21/5W	Black				

IDENTIFICATION							DETAILS (MM)			BULB			BODY		TERMINAL							
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Part Number	Lug Pattern	Focal Length	Seal Plane Diameter	CAP IEC-60061	Filament	Category ECE	Color	Material	Material and cross section	Applicable Norm	Comments					
T20 Unsealed		Right angle wired socket	Unsealed	Clockwise	0006864	0006861	T1A	31	28.50	W3x16d	Single	W21W	Black	PA46 GF15	CuSn6 Pre-Sn 0.5 to 2 mm ²	USCAR-15	Optional handle long and short					
					0006868	0006865	T2A	31	28.50	WX3x16d	Single	WY21W										
					0006872	0006869	T3A	31	28.50	W3x16q	Dual	W21/5W										
Cover					0007155	0006882	T1A T2A T3A	N/A	N/A	N/A	N/A	N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Long handle																						
Mid handle																						
T20 EPS		Wireless socket	Sealed	Clockwise	0006987	0006962	T1A	36	35.30	W3x16d	Single	W21W	PA46 GF15	CuSn6 Pre-Sn	USCAR-15	CuSn6 Pre-Sn 0.5 to 2 mm ²	Black Medium Grey					
						0007043																
					0006988	0006963	T2A	36	35.30	WX3x16d	Single	WY21W						Black Medium Grey				
						0007044																
					0006989	0006964	T3A	36	35.30	W3x16q	Dual	W21/5W						Black Medium Grey				
						0007045																
Ring		Screwed EPS Ring	Screwed	0006987	0006969	T1	36	35.30	N/A	N/A	N/A	Black	CuSn6 Pre-Sn 0.5 to 2 mm ²	USCAR-15	CuSn6 Pre-Sn 0.5 to 2 mm ²							
Ring Snap in		Snap-In EPS Ring			Snap-In	0006987	0006974	T2	36	35.30	N/A					N/A	N/A					
							0006988	T3	36	35.30	N/A					N/A	N/A					
T20 EPS 60 mm		Wireless socket	Sealed	Clockwise	0007418	0007417	T3A	36	35.30	W3x16q	Dual	W21/5W	Black	PA46 GF15	CuSn6 Pre-Sn	USCAR-15						
						0006974	T3			N/A		N/A										

Socket material	PA46 GF15
Socket color	Black or grey
Focal length	31 mm
Terminal material	CuSn6 Pre-Sn
Double crimping	Yes
Handle	Yes, optional
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15



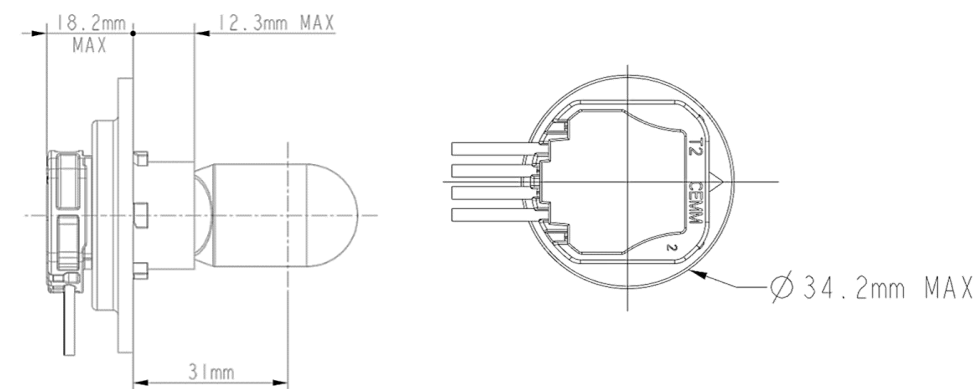
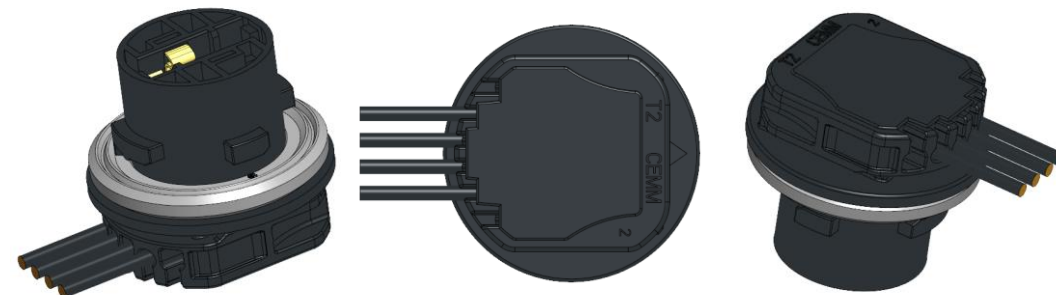
Category ECE	CAP	Filament	Color	Lug Pattern
W21W	W3x16d	Single	Clear	T1A
				T1B
WY21W	WX3x16d	Single	Amber	T2A
W21/5W	W3x16q	Dual	Clear Amber	T3A
				T3B



SERIAL PRODUCTION SEALD VALIDATED

Socket material	PA46 GF15
Socket color	Black
Focal length	31 mm
Terminal material	CuSn6 Pre-Sn
Double crimping	Yes
Handle	Yes, optional
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15

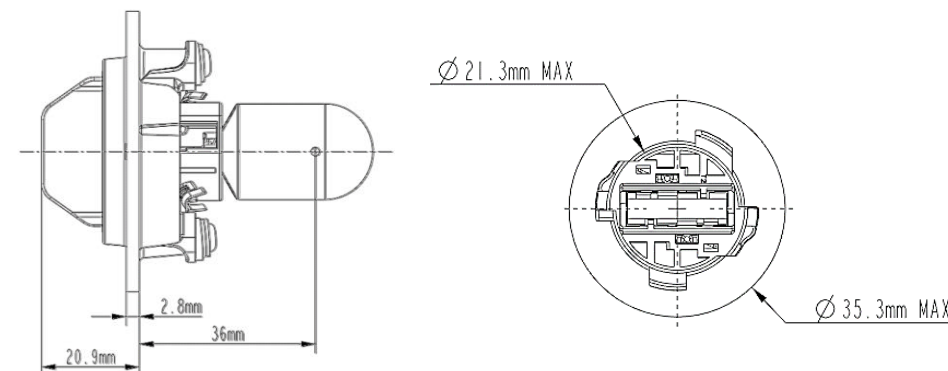
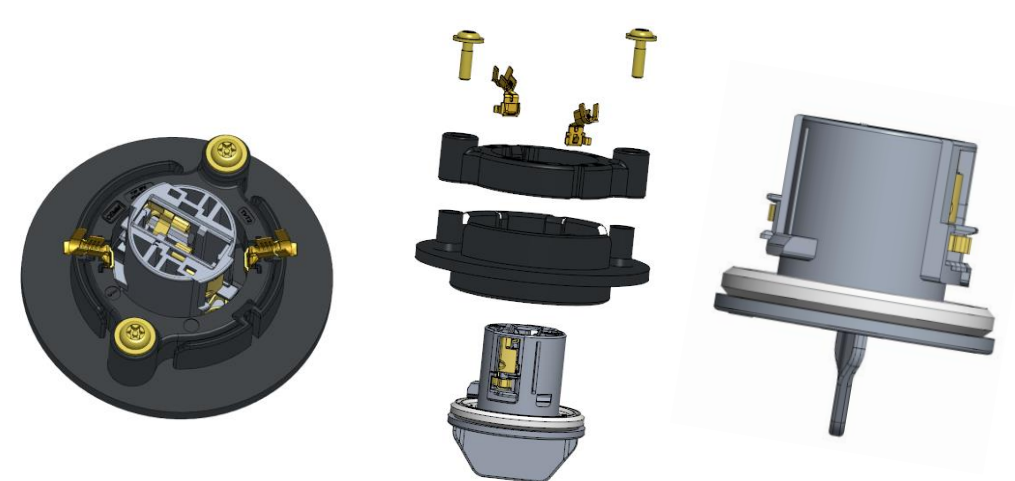
Category ECE	CAP	Filament	Color	Lug Pattern
W21/5W	W3x16q	Single	Clear Amber	T3A
WY21W	WX3x16d	Single	Amber	T2A



SERIAL PRODUCTION SEALD VALIDATED

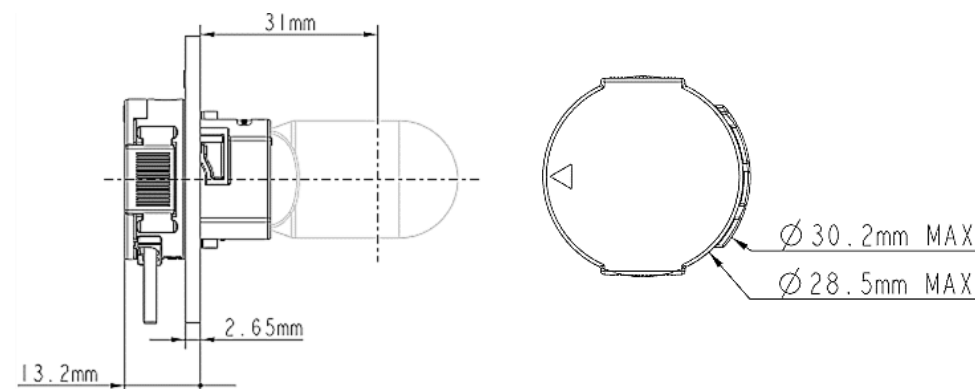
Socket material	PA46 GF15
Socket color	Black or Grey
Focal length	36 mm
Terminal material	CuSn6 Pre-Sn
Double crimping	Yes, all ring terminals.
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15


Category ECE	CAP	Filament	Color	Lug Pattern
W21W	W3x16d	Single	Clear	T1A
WY21W	WX3x16d	Single	Amber	T2A
W21/5W	W3x16q	Dual	Clear Amber	T3A



Socket material	PA46 GF15
Socket color	Black or Grey
Focal length	31 mm
Terminal material	CuSn6 Pre-Sn
Double crimping	Yes
Handle	Yes, optional
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15

Category ECE	CAP	Filament	Color	Lug Pattern
W21W	W3x16d	Single	Clear	T1A
				T1B
WY21W	WX3x16d	Single	Amber	T2A
W21/5W	W3x16q	Dual	Clear Amber	T3A
				T3B

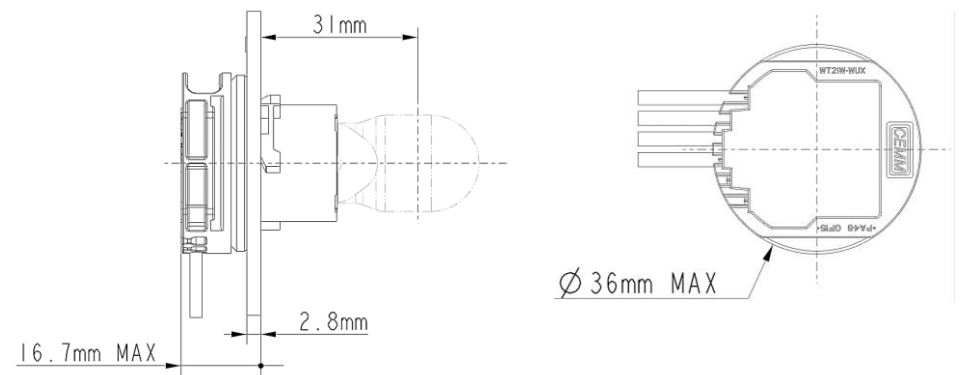
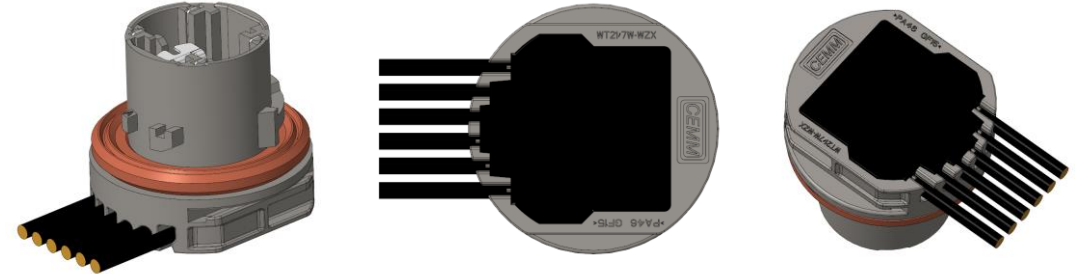




IDENTIFICATION							DETAILS (MM)			BULB		BODY		TERMINAL			
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Part Number	Lug Pattern	Focal Length	Seal Plane Diameter	CAP IEC-60061	Filament	Category ECE	Color	Material	Material and cross section	Applicable Norm	Comments
WT21		Right angle wired socket	Sealed	Clockwise	0007600	0007592	WT-A	31	36	WUX2.5x16d	Single	WT21W	Black	PA46 GF15	CuSn6 Pre-Sn 0.5-2 mm ²	USCAR-15	
						0007650							Medium Grey				
					0007599	0007591	WT-B	31	36	WUY2.5x16d	Single	WTY21W	Black				
						0007651							Medium Grey				
					0007597	0007589	WT-C	31	36	WZX2.5x16q	Dual	WT21/7W	Black				
						0007652							Medium Grey				
					0007598	0007590	WT-D	31	36	WZY2.5x16q	Dual	WTY21/7W	Black				
						0007653							Medium Grey				



SERIAL PRODUCTION SEALD VALIDATED

Socket material	PA46 GF15
Socket color	Black or medium grey
Focal length	31 mm
Retention clip material	Stainless steel
Terminal material	CuSn6 Pre-Sn
Double crimping	Yes
Handle	Yes, Optional
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15

Category ECE	CAP	Filament	Color	Lug Pattern
WT21W	WUX2.5x16d	Single	Clear	WT-A
WTY21W	WUY2.5x16d	Single	Amber	WT-B
WT21/7W	WZX2.5x16q	Dual	Clear	WT-C
WTY21/7W	WZY2.5x16q	Dual	Amber	WT-D



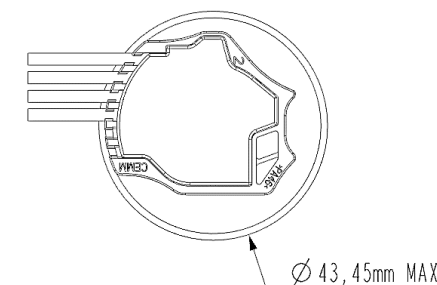
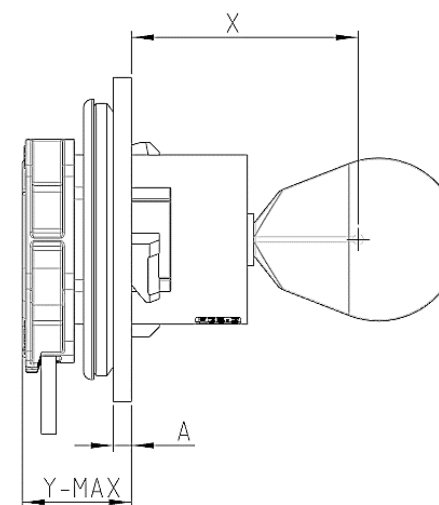
IDENTIFICATION							DETAILS (MM)			BULB			BODY		TERMINAL		
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Part Number	Lug Pattern	Focal Length	Seal Plane Diameter	CAP IEC-60061	Filament	Category ECE	Color	Material	Material and cross section	Applicable Norm	Comments
DE		Right angle wire socket	Sealed	Clockwise	0005051	0001632-2085-A2-OS1-N	OS1	20.85	43.45	W2.5x16q	Dual	P27/7W	Black	PA46	CuSn6 Pre-Sn 0.5-2 mm ²	USCAR-15	
					0005052	0001632-2085-A3-OS1-N	OS1	20.85	43.45	WX2.5x16q	Dual	PY27/7W					
					0005039	0001632-2085-A2-OS2-N	OS2	20.85	43.45	W2.5x16q	Dual	P27/7W					
					0005040	0001632-2085-A2-OS3-N	OS3	20.85	43.45	W2.5x16q	Dual						
		Right angle wired socket	Sealed	Clockwise	0005041	0001632-2540-A1-OS2-N	OS2	25.4	43.45	W2.5x16d	Single	P27W	Black	PA46	CuSn6 Pre-Sn 0.5-2 – 1.6 mm ²	USCAR-15	
					0005053	0001632-2540-A2-OS4-N	OS4	25.4	43.45	W2.5x16q	Dual	P27/7W					
	0005042				0001632-2540-A2-OS6-N	OS6	25.4	43.45	W2.5x16q	Dual							
	Right angle wired socket	Sealed	Clockwise	0001624	0001632-2945-A2-OS2-N	OS2	29.45	43.45	W2.5x16q	Dual	P27/7W	Black	PA46	CusSn6 Pre- Sn 0.5 – 1.6 mm ²	USCAR-15		
					0001632-2945-A2-OS2-G							Grey					
				0006199	0001632-2945-A3-OS2-N	OS2	29.45	43.45	WX2.5x16q	Dual	PY27/7W	Black					
					0001632-2945-A3-OS2-G							Grey					PA66
	Right angle wired socket	Sealed	Clockwise	0005446	0001632-3150-A1-OS2-N	OS2	31.5	43.45	W2.5x16d	Single	P27W	Black	PA46	CuSn6 Pre-Sn 0.5 – 2mm ²	USCAR-15		
					0005429							0001632-3150-A2-OS2-N					OS2
				0005213	0001632-3150-A2-OS2-G	OS2	31.5	43.45	WX2.5x16q	Dual	PY27/7W	Grey					
					0001632-3150-A3-OS2-N							Black					
	Right angle wired socket	Sealed	Clockwise	0006600	0006534-3500-A3-OS2-N	OS2	35	43.45	WX2.5x16q	Dual	PY27/7W	Black	PA46	CuSn6 Pre-Sn 0.5 – 2mm ²	USCAR-15		
0006544-3500-A3-OS2-G					Grey												
Handle DE		Right angle	N/A	N/A	0005982	0005981	N/A	31.5	N/A	N/A	N/A	NA	Black	PA66 GF30	N/A		Upon requirement Specific handle for socket DE FL31.50

IDENTIFICATION							DETAILS (MM)			BULB			BODY		TERMINAL							
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Part Number	Lug Pattern	Focal Length	Seal Plane Diameter	CAP IEC-60061	Filament	Category ECE	Color	Material	Material and cross section	Applicable Norm	Comments					
CEA		Right angle wired socket	Sealed	Clockwise	0005261	0005204	1A	22.2	38.8	W2.5x16d	Single	P27W	TBD	PA46	CuSn6 Pre-Sn 0.5-2 mm ²	USCAR-15						
						0005190							Black	PA66								
					0005262	0005205	1B	22.2	38.8	W2.5x16d	Single	P27W	White	PA46		USCAR-15						
						0005191							Grey	PA66								
					0005263	0005206	2A	22.2	38.8	W2.5x16q	Dual	P27/7W	Beige	PA46		USCAR-15						
						0005192							Brown	PA66								
						0005193							Grey									
					0005264	0005207	3A	22.2	38.8	WX2.5x16q	Dual	PY27/7W	TBD	PA46		USCAR-15						
						0005194							Light Brown	PA66								
						Right angle wired socket	Sealed	Clockwise	0005265	0005208	5A	29.14	38.8	W2.5x16d		Single	P27W	Beige	PA46	CuSn6 Pre-Sn 0.5-2 mm ²	USCAR-15	
										0005195								Black	PA66			
									0005266	0005209	5B	29.14	38.8	W2.5x16d		Single	P27W	White	PA46		USCAR-15	
	0005196	Grey	PA66																			
	0005267	0005210	6A	29.14					38.8	W2.5x16q	Dual	P27/7W	Brown	PA46	USCAR-15							
		0005211											Beige									
		0005197											Brown	PA66								
		0005198											Grey									
	0005268	0005212	7A	29.14					38.8	WX2.5x16q	Dual	PY27/7W	Black	PA46	USCAR-15							
		0005199											Beige									
	0005269	0005200	7B	29.14					38.8	WX2.5x16q	Dual	PY27/7W	Light Brown	PA66								
	Right angle wired socket	Sealed	Clockwise	0005270					0005201	5A	31.5	38.8	W2.5x16d	Single	P27W	Grey	PA66	CuSn6 Pre-Sn 0.5-2 mm ²				
				0005271	0005202	6A	31.5	38.8	W2.5x16q	Dual	P27/7W	Brown										
				0005272	0005203	7A	31.5	38.8	WX2.5x16q	Dual	PY27/7W	Light Brown										

Socket material	PA46 or PA66
Socket color	Black or grey
Terminal material	CuSn6 Pre-Sn
Double crimping	Yes
Handle	Yes, optional (For FL 31.50)
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15 only for PA46



Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)	Depth (y)
P27W	W2.5x16d	Single	Clear	OS2	25.40	23.85
				OS2	31.50	17.75
P27/7W	W2.5x16q	Dual	Clear	OS1	20.85	28.40
				OS2	20.85	28.40
				OS2	29.45	19.80
				OS2	31.50	17.75
				OS3	20.85	28.40
				OS4	25.40	23.85
				OS6	25.40	23.85
PY27/7W	WX2.5x16q	Dual	Ambar	OS1	20.85	28.40
				OS2	29.45	19.80
				OS2	31.50	17.75
				OS2	35.00	17.75

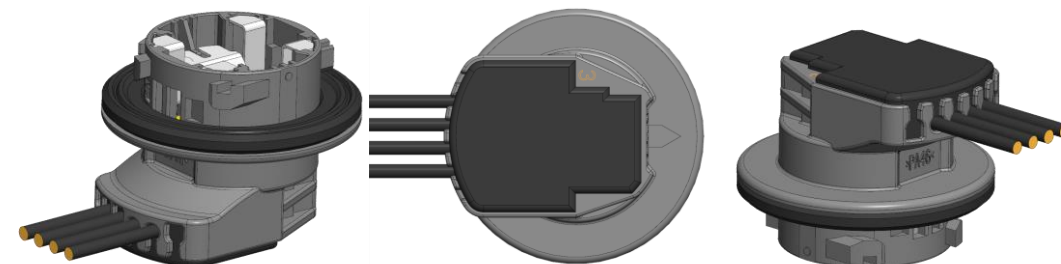


Counterpart thickness A	
Option 1	Option 2
2.79 mm	3.05 mm

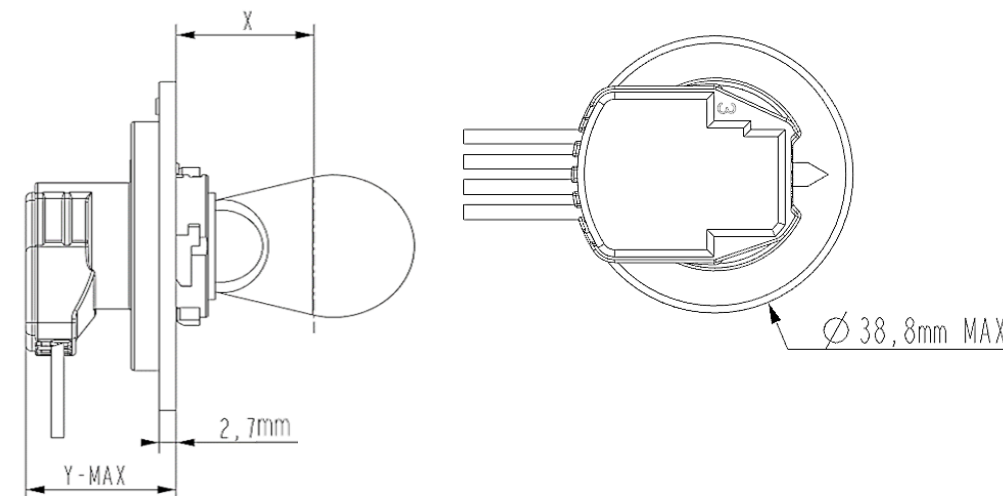
Bulb Socket S8 Wedge Base - CEA



SERIAL PRODUCTION SEALED VALIDATED

Socket material	PA46 or PA66
Socket color	Black, brown, grey, beige, white or light brown
Terminal material	CuSn6 Pre-Sn
Double crimping	Yes
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15 only for PA46





Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)	Depth (y)
P27W	W2.5x16d	Single	Clear	1A	22.20	24.20
				1B	22.20	24.20
				5A	29.14	17.20
				5A	31.50	14.90
				5B	29.14	17.20
P27/7W	W2.5x16q	Dual	Clear	2A	22.20	24.20
				6A	29.14	17.20
				6A	31.50	14.90
PY27/7W	WX2.5x16q	Dual	Ambar	3A	22.20	24.20
				7A	29.14	17.20
				7A	31.50	14.90
				7B	29.14	17.20



IDENTIFICATION							DETAILS (MM)			BULB			BODY		TERMINAL			
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Part Number	Lug Pattern	Focal Length	Seal Plane Diameter	CAP IEC-60061	Filament	Category ECE	Color	Material	Material and cross section	Applicable Norm	Comments	
A		Right angle wired socket	Unsealed	Clockwise	0097161	1597117	1A	32.9	35.5	BA15	Single	P21W	Black	PA46	Alimentation CuNi18 Zn27 Pre-Sn 0.5-1 mm ²	USCAR-15		
						0197117							Grey	PA66				
						1397117							Black	PA66				
					0097162	1497117	1B	32.9	35.5	BA15	Single	P21W	Brown	PA46		USCAR-15		
						1697117							Black	PA46				
						0297117							Brown	PA66				
					0097163	0397117	1C	32.9	35.5	BA15	Single	P21W	White	PA66		USCAR-15		
						0497117							Orange	PA66				
						0097164							1197117	2				32.9
					0001608	1297117	2B	32.9	35.5	BAW15	Single	PR21W	Light Grey	PA66		USCAR-15		
						0597117							Black	PA66				
						0097165							1097117	3				32.9
					1797117	Black	PA46											
					0007073	Grey	PA46											
					0097172	0797117	3B	32.9	35.5	BAY15	Dual	P21/5W	Light Brown	PA66		USCAR-15		
0097166	0697117	4	32.9	35.5	BAZ15	Dual	P21/4W	Beige	PA66	USCAR-15								
	0007330								PA46									
P21W / PY21W EPS		Wireless Socket	Sealed	Clockwise	0100119	0100135	A	31.8	42	BA15	Single	P21W	Black	PA66 GF30	Contact counterpart CuZn30	USCAR-15	Custom for Ford	
					0100120	0100136	A	36.8	42	BAU15	Single	PY21W			Contact Socket CuSn6 Pre-Sn 0.5-1.2 mm ²		Custom for Ford	
					0007748	0001214	A	36.8	42	BAU15	Single	PY21W						

S8 Bayonet Sockets

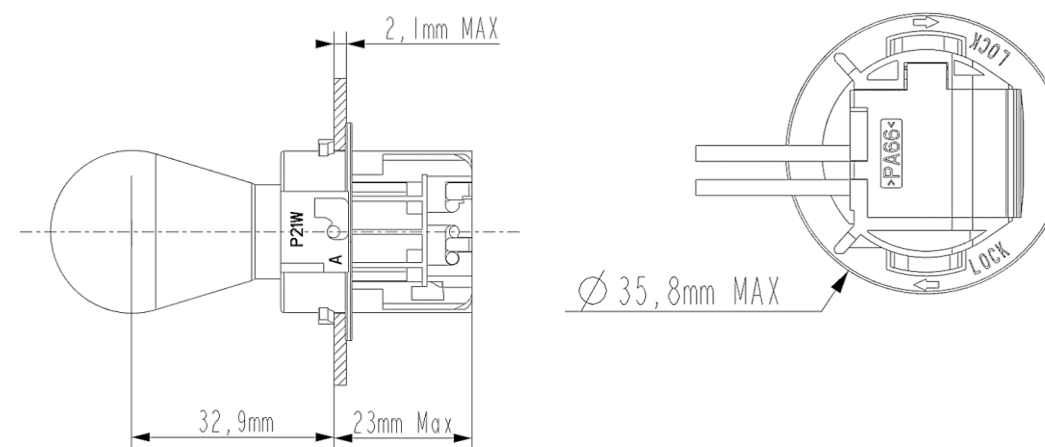
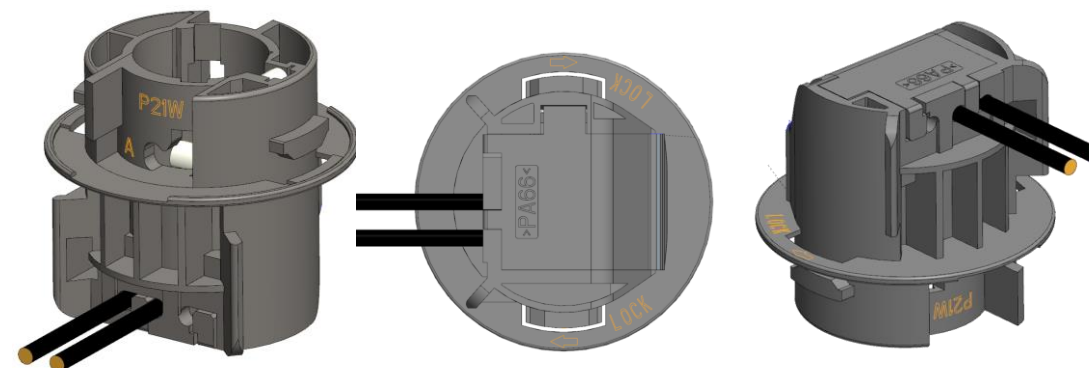
IDENTIFICATION							DETAILS (MM)			BULB		BODY		TERMINAL		Applicable Norm	Comments												
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Part Number	Lug Pattern	Focal Length	Seal Plane Diameter	CAP IEC-60061	Filament	Category ECE	Color	Material	Material and cross section														
AE		Right angle wired socket	Sealed	Clockwise	0097167	0197116	1A	31.8	35.5	BA15	Single	P21W	Grey	PA66	Alimentation CuNi18 Zn27 Pre-Sn 0.5-1 mm ²	USCAR-15													
						0007182							Black	PA46															
						0007267							Grey																
						0097168							0397116	1B			31.8	35.5	BA15	Single	P21W	Brown	PA66						
													0697116									Light Brown							
													0007126									Light Brown	PA46						
					0007274		Brown																						
					0097169	0297116	2	31.8	35.5	BAU15	Single	PY21W	Orange	PA66															
						0001681							Black																
						0005911							Light Grey																
	0007129					Black							PA46																
	0007183					Brown																							
	0007240					Light Grey																							
	0005989				0997116	5A	31.8	35.5	BAW15s	Single	PR21W	Grey	PA66																
					0006990							Black																	
					0007130							Grey	PA46																
					0007131							Black																	
	0005990				1097116	5B	31.8	35.5	BAW15d	Dual	PR21/5W	White	PA66																
					0007137							White	PA46																
	0097170				0001534	3	31.8	35.5	BAY15	Dual	P21/5W	Grey	PA66																
0497116		Black																											
0007135		Grey	PA46																										
0007273		Black																											
0797116		Red																											
0897116		Beige	PA66																										
0097171	0597116	4	31.8	35.5	BAZ15	Dual	P21/4W	Beige																					
	0007136							Beige	PA46																				
AC		Right angle wired socket	Unsealed	Clip on	0006031	0006033	A	31.8	N/A	BA15	Single	P21W	White	PA66	Ground CuZn30 Pre-Sn 0.35-1.75 mm ²	USCAR-15													
						0006034	B						BA15																
						0006035	C						BA15																
						0006036	A						BAU15				PY21W	Light Grey											
						0006038	A						BAY15					Black											
						0006039	B						BAY15				P21/5W	Light Brown											
						0006040	A						BAZ15					Beige											
						0006041	B						BAZ15				P21/4W	Brown											

Bulb Socket S8 Bayonet - A

SERIAL PRODUCTION UNSEALED VALIDATED

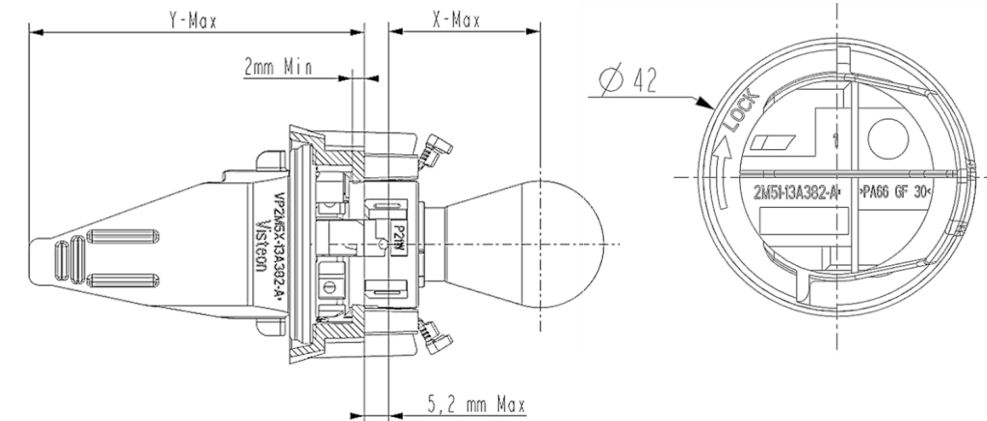
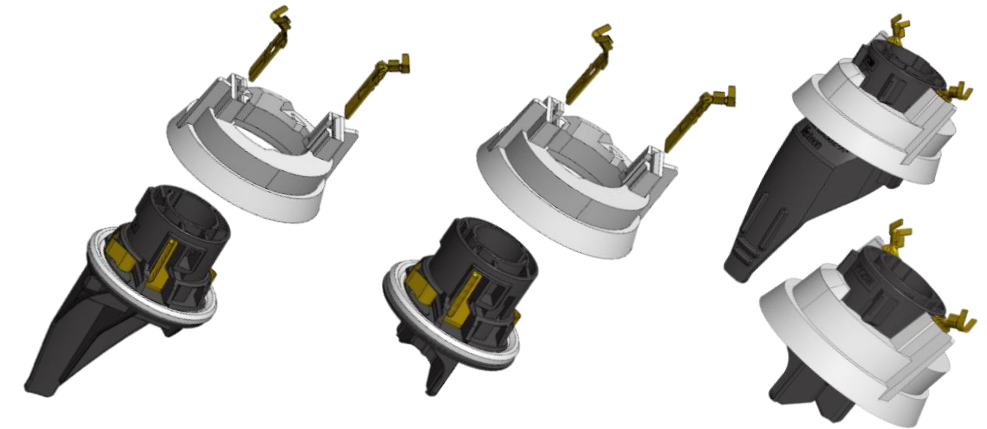
Socket material	PA46 or PA66
Socket color	Black, brown, grey, light grey, orange, white or beige
Focal length	32.9 mm
Terminal material	CuNi18 Zn27
Double crimping	Yes, ground terminal for single filament bulb
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15 only for PA46

Category ECE	CAP	Filament	Color	Lug Pattern
P21W	BA15s	Single	Clear	1A
				1B
				1C
P21/5W	BAY15d	Dual	Clear	3
				3B
PY21W	BAU15s	Single	Ambar	2
P21/4W	BAZ15d	Dual	Clear	4
PR21W	BAW15s	Single	Red	2B



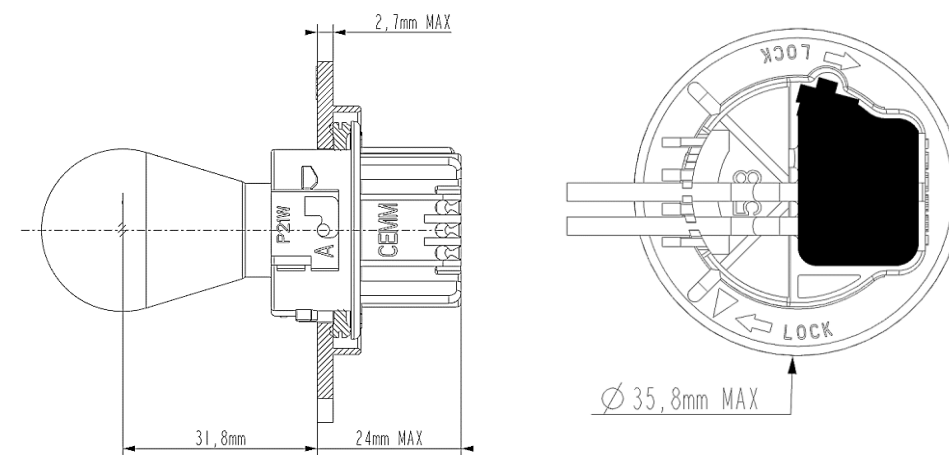
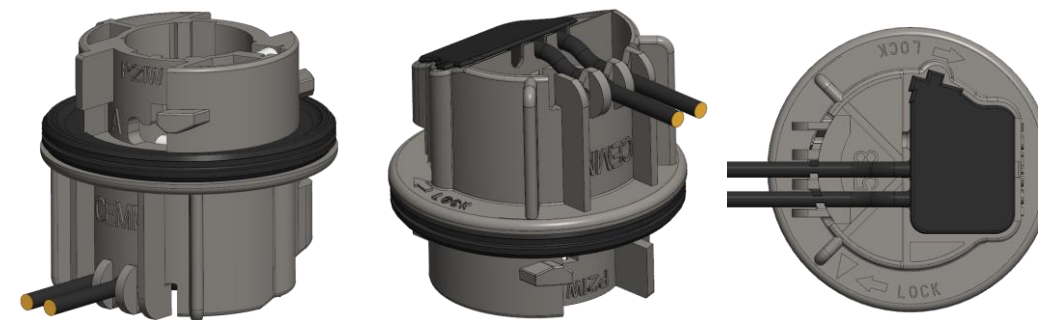
Socket material	PA66 GF30
Socket color	Black
Terminal material	Contact counterpart: CuZn20 Contact socket: CuSn6 Pre-Sn
Double crimping	No
Handle	Yes
Lamp caps and holders	CEI / IEC 60061 compliant

Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)	Depth (y)
P21W	BA15s	Single	Clear	A	31.8	71.55
PY21W	BAU15s	Single	Amber	A	36.8	31.95

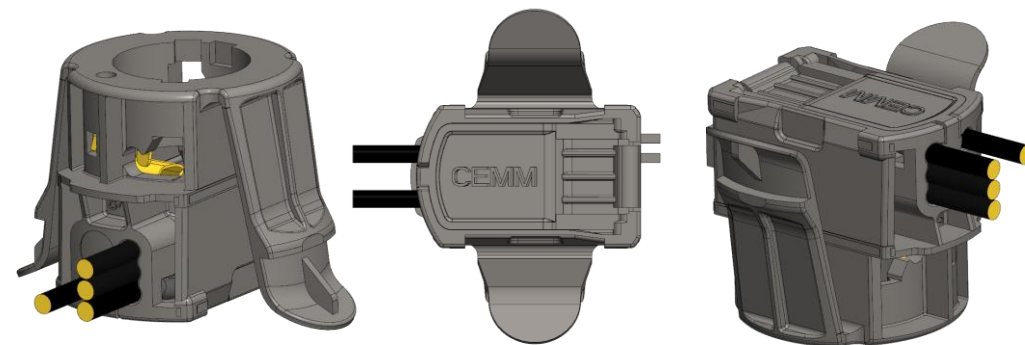


Socket material	PA46 or PA66
Socket color	Beige, black, brown, grey, orange, white, red or light brown
Focal length	31.8 mm
Terminal material	CuNi18 Zn27
Double crimping	Yes: ground terminal for single filament bulb
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15 only for PA46

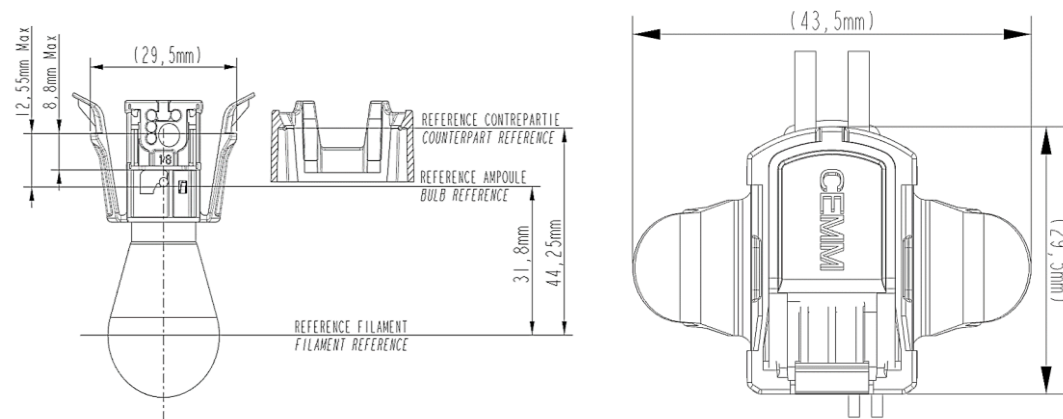
Category ECE	CAP	Filament	Color	Lug Pattern
P21W	BA15s	Single	Clear	1A
				1B
PY21W	BAU15s	Single	Amber	2
PR21W	BAW15s	Single	Red	5A
PR21/5W	BAW15d	Dual	Red	5B
P21/5W	BAY15d	Dual	Clear	3
P21/4W	BAZ15d	Dual	Clear	4








Socket material	PA66
Socket color	Black, brown, grey, white or beige
Focal length	31.8 mm
Terminal material	Alimentation: CuSn6 Pre-Sn Ground: CuZn30 Pre-Sn
Double crimping	Yes
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant















Category ECE	CAP	Filament	Color	Lug Pattern
P21W	BA15s	Single	Clear	A
				B
				C
P21/5W	BAY15d	Dual	Clear	A
				B
PY21W	BAU15s	Single	Amber	A
P21/4W	BAZ15d	Dual	Clear	A
				B



IDENTIFICATION							DETAILS (MM)			BULB		BODY		TERMINAL			
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Part Number	Lug Pattern	Focal Length	Seal Plane Diameter	CAP IEC-60061	Filament	Category ECE	Color	Material	Material and cross section	Applicable Norm	Comments
WBK		Axial wired socket	Sealed	Clockwise	0001451	0001449	WBB	19.40 17.90	17.50	W2.1x9.5d	Single	T3 1/4 W5W	Black	PBT	CuSn6 Pre-Sn 0.75 to 1.5 mm ²		Short version
						0001473							Short version				
						0001531							Short version				
						0001459							Long version				
						0001476							Long version				
					0001472	0001474	WBD	27.20 25.70	19.80	W2.1x9.5d	Single	T3 1/4 W5W	Black	PBT			Short version
						0001475							Short version				
						0001532							Short version				
						0001477							Long version				
						0001478							Long version				
WBE		Axial wired socket	Unsealed	Clip on	0007118	V2	27.20 25.70	14.60	W2.1x9.5d	Single	T3 1/4 W5W	Black	PEI GF10	CuZn30 Pre-Sn 0.5 to 1.5 mm ²	USCAR-15	Long version	
												0006947				Black	Short version
												0006950				Light Grey	Short version
												0007119				Ligth Grey	USCAR-15
					0006300	V1	25.70	Black	USCAR-15	Long version							
								0006292		Light Grey	Long version						
								0006293									
WBB		Axial wired socket	Unitary wire seals	Clockwise	00097150	E0225	WBB	19.40 17.90	17.5	W2.1X9.5d	Single	T3 1/4 W5W	Natural	PBT GF15	UE6P Pre-Sn Conductor 0.5 to 1.5 mm ²		
					0099056	E0146							Grey				Custom for Valeo
					0001359	Black							Custom for Valeo				
WBD		Axial wired socket	Unitary wire seals	Clockwise	0097151	0097122	WBD	27.20 25.70	19.8	W2.1X9.5d	Single	T3 1/4 W5W	Grey	PBT GF20	UE6P Pre-Sn Conductor 0.5 to 1.5 mm ²		
WBH		Axial wired socket	Unsealed	Clip on	0001222	0001164	WBH	25.75 24.25	N/A	W2.1X9.5d	Single	T3 1/4 W5W	Black	PEI GF10	CuZn30 Pre-Sn 0.2 to 0.6 mm ² 0.5 to 1.5 mm ² 1 to 2 mm ²		Short handle
						0001165							Grey				Short handle
					0001502	0001504							Black				Type 2: long handle
						0001501							Grey				Type 2: long handle
						0007056							Natural				Type 2: long handle

W2 Sockets

IDENTIFICATION							DETAILS (MM)			BULB		BODY		TERMINAL	Applicable Norm	Comments									
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Part Number	Lug Pattern	Focal Length	Seal Plane Diameter	CAP IEC-60061	Filament	Category ECE	Color	Material			Material and cross section								
WBO		Axial wired socket	Unsealed	Clockwise	0006108	0006109	A	25.70	19.00	W2.1X9.5d	Single	W5W	Grey	PBT GF20	CuSn6 Pre-Sn 0.5 to 1.5 mm²										
WBL		Right angle wired socket	Sealed	Clockwise	0007140	0001570	A	21.20	24.90	W2.1x9.5d	Single	W16W T3¼ W5W	Black	PA66	CuSn6 Pre-Sn 0.75 to 1.5 mm²	USCAR-15									
						0001581		14.80					13.30	Medium Grey			PA46								
						0007141	0001569	A	29.00				24.90	W2.1x9.5d	Single		W16W T3¼ W5W	Light Grey	PA66	CuSn6 Pre-Sn 0.75 to 1.5 mm²	USCAR-15				
							0001580		22.60									21.10	Black			PA46			
							0007012		29.00									24.90	W2.1x9.5d				Single	W16W T3¼ W5W	Medium Grey
							0006997															22.60			21.10
					0007142	0006946	B	29.00	24.90	W2.1x9.5d	Single	W16W T3¼ W5W	Orange	PA46	CuSn6 Pre-Sn 0.75 to 1.5 mm²	USCAR-15									
						0007013		22.60					21.10	Medium Grey			PA46 GF15								
						0007422		29.00					24.90	W2.1x9.5d				Single	W16W T3¼ W5W	Dark Grey	PA46 GF15				
						0007427											22.60			21.10					
					WBL (IH)		Right angle wired socket	Sealed	Clockwise	0007268	0007160	A	21.20	24.90	W2.1x9.5d	Single	W16W T3¼ W5W	Black	PA66	CuSn6 Pre-Sn 0.75 to 1.5 mm²	USCAR-15				
											0007162		14.80					13.30	Medium Grey			PA46			
0007269	0007161	A	29.00	24.90						W2.1x9.5d	Single	W16W T3¼ W5W	Light Grey	PA66	CuSn6 Pre-Sn 0.75 to 1.5 mm²	USCAR-15									
	0007163		22.60										21.10	Black			PA46								
	0007165		29.00										24.90	W2.1x9.5d				Single	W16W T3¼ W5W	Light Grey	PA46				
	0007167																22.60			21.10		Medium Grey			
0007270	0007654	B	29.00	24.90						W2.1x9.5d	Single	W16W T3¼ W5W	Orange	PA66	CuSn6 Pre-Sn 0.75 to 1.5 mm²	USCAR-15									
	0007164		22.60										21.10	Medium Grey			PA46								
	0007166																								
WBL-R		Right angle wired socket	Sealed	Clockwise						0007140	0007086	A	21.20	24.90	W2.1x9.5d	Single	W16W	Black	PA66	CuSn6 Pre-Sn 0.75 to 1.5 mm²	USCAR-15				
											0007088		14.80					13.30	Medium Grey			PA46			
										0007141	0007087	A	29.00	24.90	W2.1x9.5d	Single	W16W	Light Grey	PA66	CuSn6 Pre-Sn 0.75 to 1.5 mm²	USCAR-15				
					0007089	22.60	21.10	Black	PA46																
					0007093	29.00	24.90	W2.1x9.5d			Single		W16W					Medium Grey	PA46						
					0007091				22.60									21.10				Light Grey			
					0007142	0007090	B	29.00	24.90	W2.1x9.5d	Single	W16W	Orange	PA46	CuSn6 Pre-Sn 0.75 to 1.5 mm²	USCAR-15									
						0007092		22.60					21.10	Medium Grey			PA46 GF15								
						0007423		29.00					24.90	W2.1x9.5d				Single	W16W	Dark Grey	PA46 GF15				
						0007428											22.60			21.10					

IDENTIFICATION							DETAILS (MM)			BULB			BODY		TERMINAL			
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Part Number	Lug Pattern	Focal Length	Seal Plane Diameter	CAP IEC-60061	Filament	Category ECE	Color	Material	Material and cross section	Applicable Norm	Comments	
WBN		Right angle wired socket	Sealed	Clockwise	0005020	0005230	OSI4	35.40	27.50	W2.1x9.5d	Single	W16W T3¼ W5W	Black	PA46	CuSn6 Pre-Sn 0.75 to 1.5 mm²	USCAR-15	Recommended for T3 1/4 & W5W bulbs	
						0006804		29.00										
						0006897	0006896	OSI3	27.50				27.50					Black
						0005035	0005234	OSI4	21.40				27.50					Black
						0006340	15.00		Light Grey									
						0005036	0005238	OSI3	13.50				27.50					Black
0005037	0005242	OSI2		27.50														
WBN-2		Right angle wired socket	Sealed	Clockwise	0006901	0006900	OSI3	35.40	27.50	W2.1x9.5d	Single	W16W	Grey	PA46	CuSn6 Pre-Sn 0.75 to 1.5 mm²	USCAR-15		
WBG		Axial wired socket	Unsealed	Clockwise	0006258	0006259	A	21.20	25.60	W2.1X9.5d	Single	W16W T3¼ W5W	Grey	PA46	CuSn6 Pre-Sn 1 to 2 mm² 0.5 to 1.5 mm²			
0006486						13.30							Grey	PA46				
0006290						0006277		14.80	Black				PA46					
						0006487							PA66					
WBG vB					0007186								PA46					
						0007343								PA66				
WBI		Axial wired socket	Unsealed	Clockwise	0001276	0001275	A	28.00	25.50	W2.1X9.5d	Single	W16W	Grey	PA46	CuZn30 Pre-Sn 0.5 to 1.5 mm²			
W16W EPS		Wireless socket	Sealed	Clockwise	0007178	0007173	A	24.60	28.70	W2.1x9.5d	Single	W16W	Black	LCP-MF30	X10CrNi 18-8 C1300 2H	USCAR-15	Socket design and validation completed. Pending to design complementary circuit Custom for AUDI	
P415		Axial wired socket	Unsealed	Clockwise	0006172	0006144	A	21.50	21.50	W2.1x9.5d	Single	W16W	Grey	PBT GF20	CuSn6 Pre-Sn 1.0 - 2.0 mm²	USCAR-15	USCAR-15 deviation FORD number am5a-14a553-da	
						0006145	B	21.50	21.50									
WBP IH		Right angle wired socket	Sealed	Clockwise	0007393	0007655	A	18.10	20.30	W2.1X9.5d	Single	W5W	Grey	PA66	CuSn6 Pre-Sn 0.5 to 2 mm²			
Smart		Axial connector end socket	Sealed	Clockwise	0001695	0001687 / 0001688	A	32.60	20.00	W2.1x9.5d	Single	W5W	Black	PA46 GF30	CuZn30 Pre-Sn Conductor 0.5 mm to 1 mm CuFe2 Pre-Sn TE AMP Timer Connector System Conductor 0.5 mm to 1 mm		Restricted, 2 ways connector end ref. A210 002 80 99 codage A (Mercedes Benz) connector tab CuFe2 Pre-Sn.	

SERIAL PRODUCTION

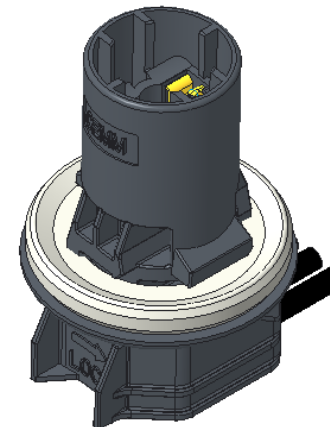
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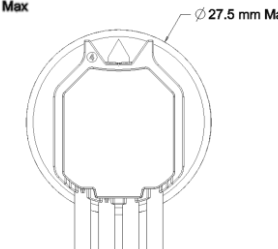
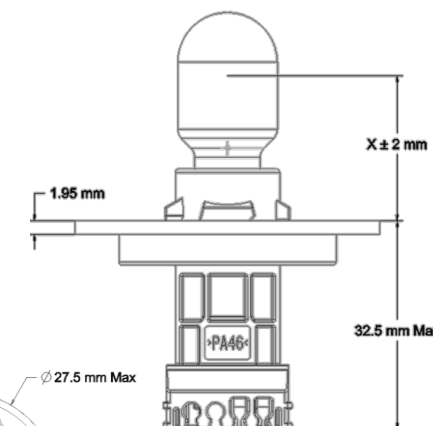
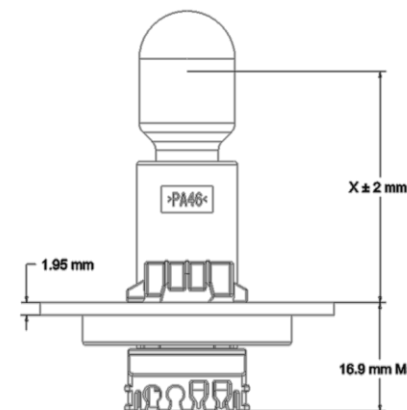
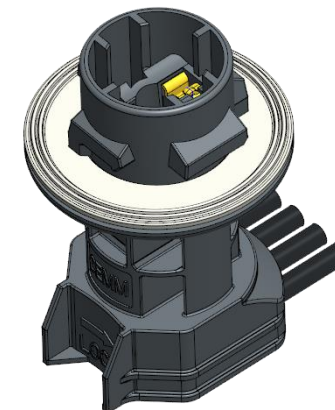
Socket material	PA46
Socket color	Black, grey or light grey
Terminal material	CuSn6 Pre-Sn
Double crimping	Yes
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15

Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)
W16W	W2.1x9.5d	Single	Clear Amber	F-35.40 OSI-4 OSI-3	35.40
T3 ¼					29.00
W5W					27.50
W16W	W2.1x9.5d	Single	Clear Amber	F-21.40 OSI-4 OSI-3 OSI-2	21.40
T3 ¼					15.00
W5W					13.50

F-35.40



F-21.4

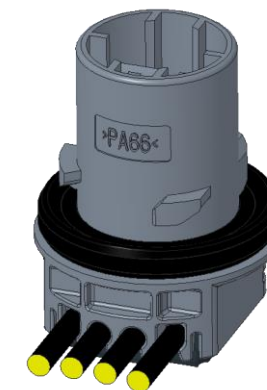


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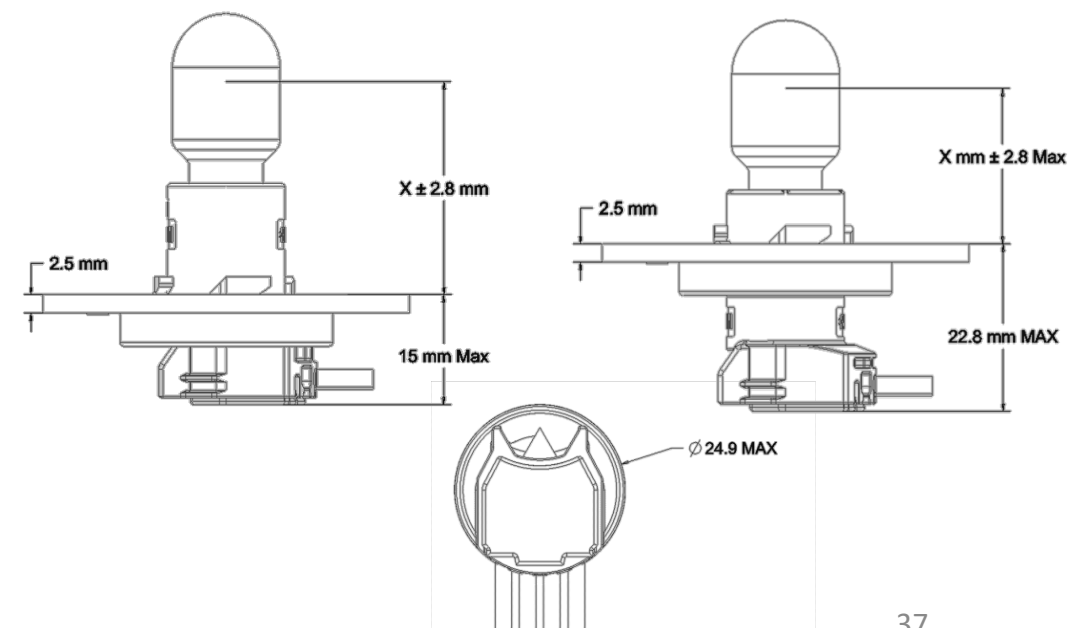
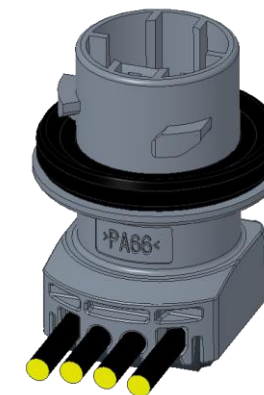
Socket material	PA46 or PA66
Socket color	Black, grey or orange
Terminal material	CuSn6 Pre-Sn
Double crimping	Yes
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15 only for PA46

Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)
W16W	W2.1x9.5d	Single	Clear Amber	F-21.2 Lug. A	21.2
W5W					13.3
T3 ¼					14.8
W16W	W2.1x9.5d	Single	Clear Amber	F-29 Lug. A	29.0
W5W					21.1
T3 ¼					22.6
W16W	W2.1x9.5d	Single	Clear Amber	F-29 Lug. B	29.0
W5W					21.1
T3 ¼					22.6

F-29



F-21.2



Socket material	PA46 or PA66
Socket color	Black, grey or orange
Terminal material	CuSn6 Pre-Sn
Double crimping	Yes
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15 only for PA46

Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)
W16W	W2.1x9.5d	Single	Clear Amber	F-21.2 Lug. A	21.2
W5W					13.3
T3 ¼					14.8
W16W	W2.1x9.5d	Single	Clear Amber	F-29 Lug. A	29.0
W5W					21.1
T3 ¼					22.6
W16W	W2.1x9.5d	Single	Clear Amber	F-29 Lug. B	29.0
W5W					21.1
T3 ¼					22.6

Bulb Socket T5 (WBL IH)

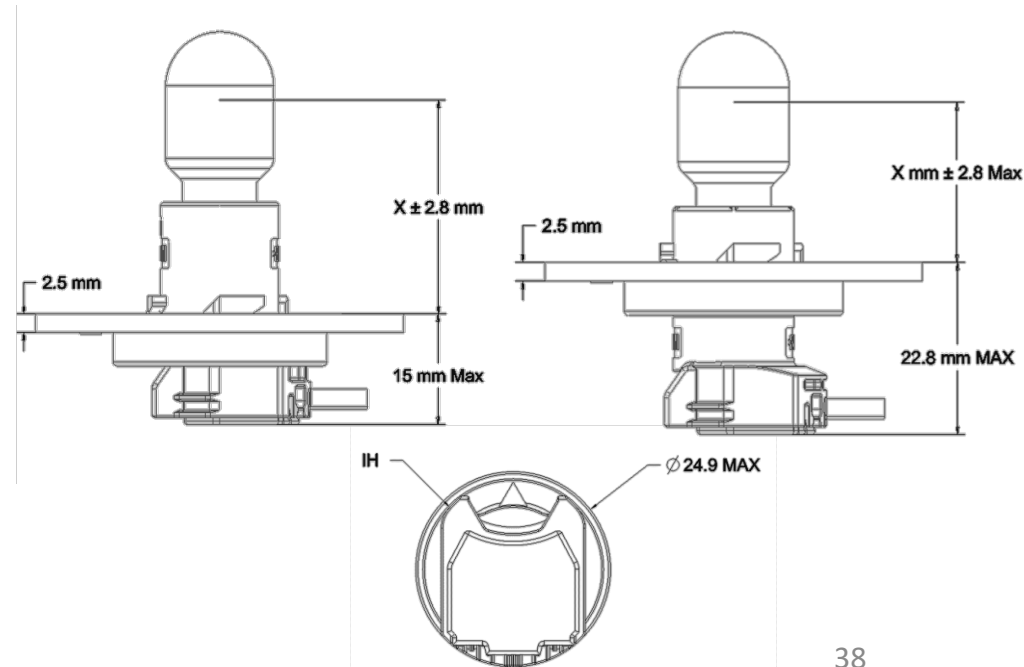
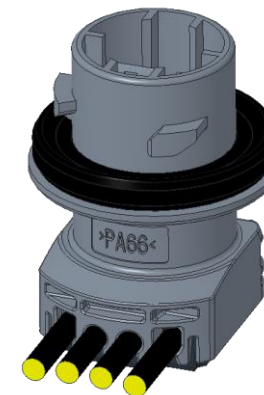
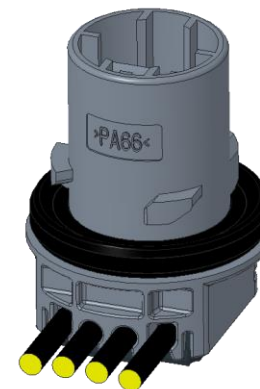
SERIAL PRODUCTION

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F-29

F-21.2



SERIAL PRODUCTION

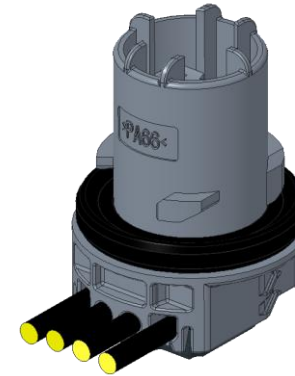
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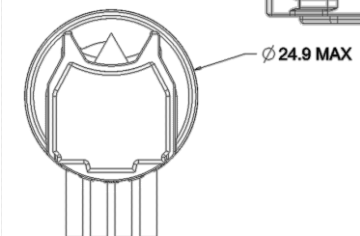
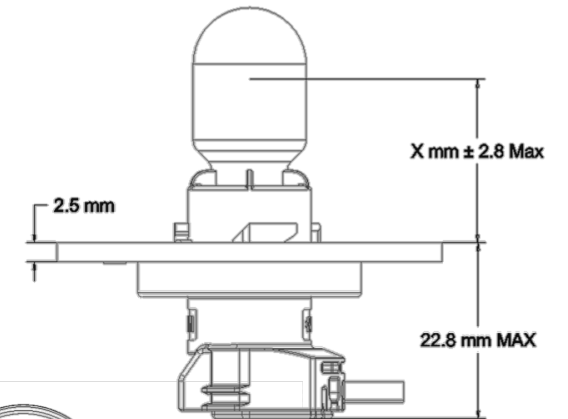
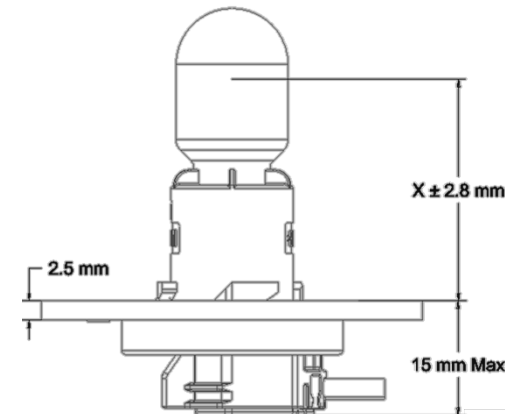
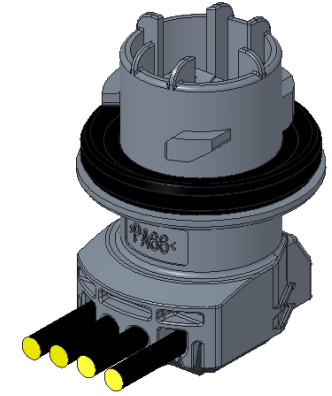
Socket material	PA46 or PA66
Socket color	Black, grey or natural
Terminal material	CuSn6 Pre-Sn
Double crimping	Yes
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15 only for PA46

Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)
W16W	W2.1x9.5d	Single	Clear Amber	F-21.2 Lug. A	21.2
W16W	W2.1x9.5d	Single	Clear Amber	F-29 Lug. A	29.0
W16W	W2.1x9.5d	Single	Clear Amber	F-29 Lug. B	29.0

F-29



F-21.2



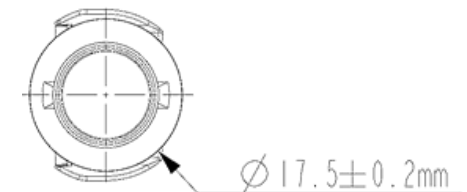
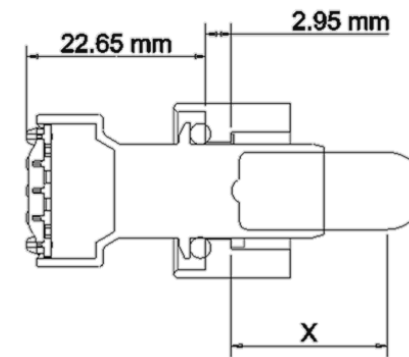
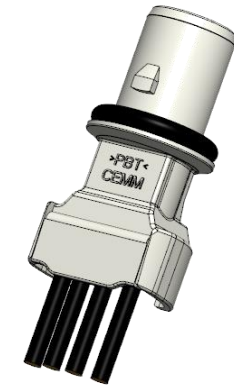
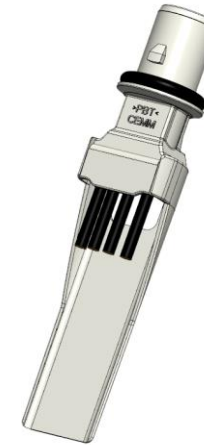
Bulb Socket T3 1/4 (WBK)

SERIAL PRODUCTION

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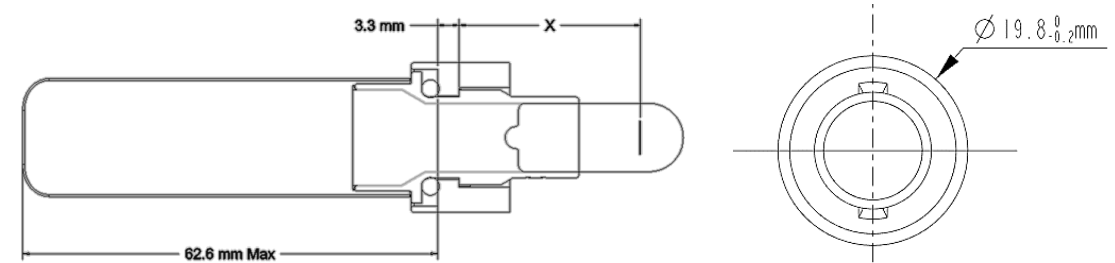
Socket material	PBT
Socket color	Black or grey
Terminal material	CuSn6 Pre-Sn
Double crimping	Yes
Handle	Yes, optional version
Lamp caps and holders	CEI / IEC 60061 compliant

Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)
W5W	W2.1x9.5d	Single	Clear Amber	WBB	17.9
				WBD	25.7
T3 1/4	W2.1x9.5d	Single	Clear Amber	WBB	19.4
				WBD	27.2



Socket material	PBT GF20
Socket color	Light grey
Terminal material	UE6P Pre-Sn
Double crimping	No
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant

Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)
W5W	W2.1x9.5d	Single	Clear Amber	WBD	25.7
T3 ¼	W2.1x9.5d	Single	Clear Amber	WBD	27.2



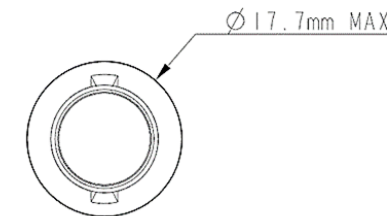
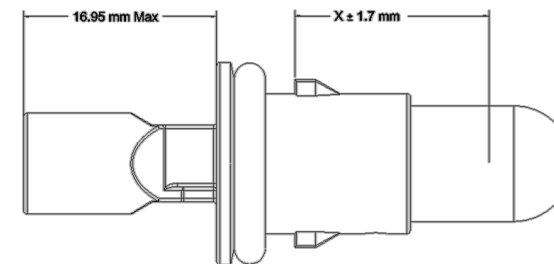
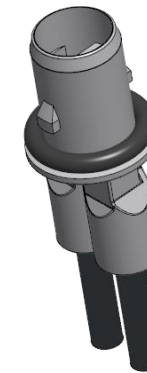
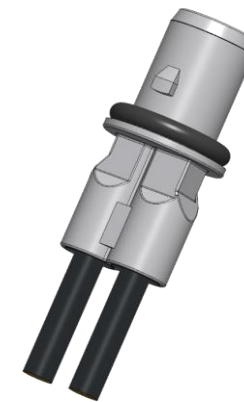
Bulb Socket T3 1/4 (WBB)

SERIAL PRODUCTION

SEALED

Socket material	PBT GF15
Socket color	Black or grey
Terminal material	UE6P Pre-Sn
Double crimping	No
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant

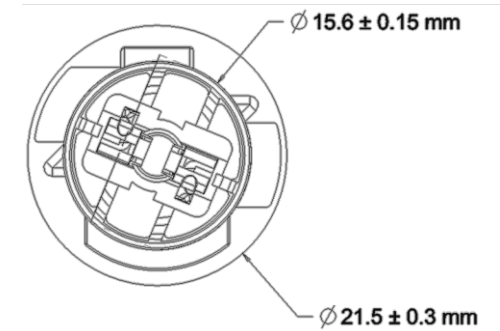
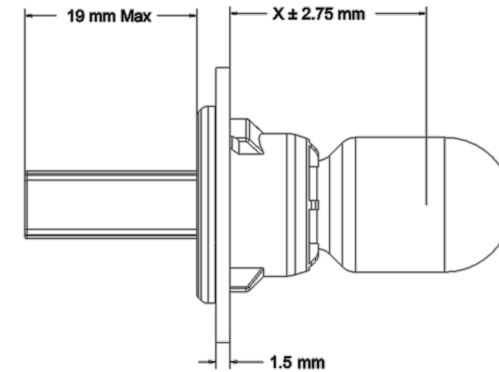
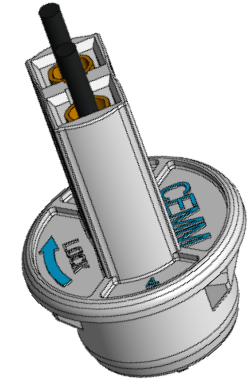
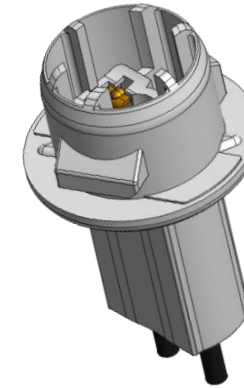
Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)
W5W	W2.1x9.5d	Single	Clear Amber	WBB	17.9
T3 ¼	W2.1x9.5d	Single	Clear Amber	WBB	19.4



SERIAL PRODUCTION UNSEALED VALIDATED

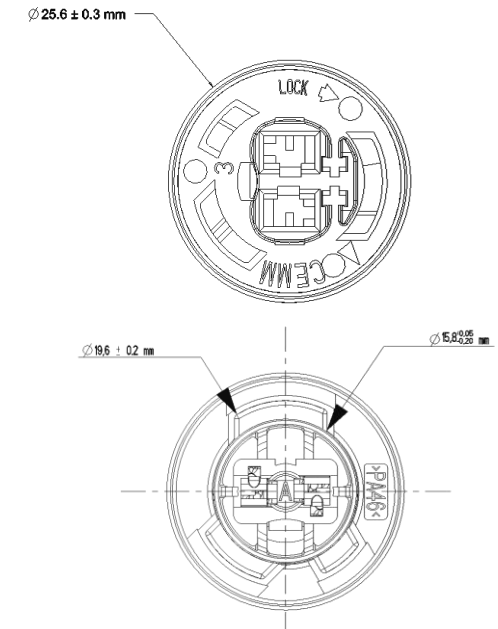
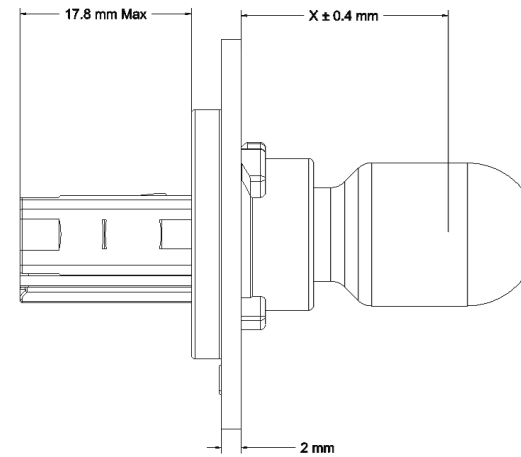
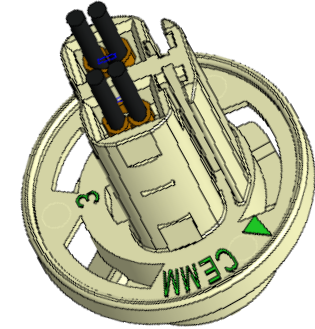
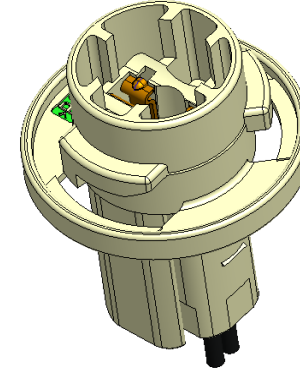
Socket material	PBT GF20
Socket color	Dark grey
Terminal material	CuSn6 Pre-Sn.
Double crimping	Yes
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15

Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)
W16W	W2.1x9.5d	Single	Clear Amber	A	21.50
				B	



Socket material	PA46 or PA66
Socket color	Grey or black
Terminal material	CuSn6 Pre-Sn
Double crimping	Yes
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant

Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)
W16W	W2.1x9.5d	Single	Clear Amber	A	21.20
W5W	W2.1x9.5d	Single	Clear Amber	A	13.30
T3 ¼	W2.1x9.5d	Single	Clear Amber	A	14.80

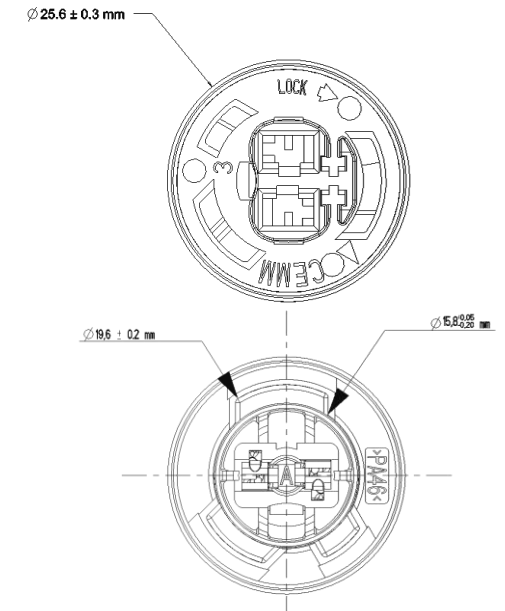
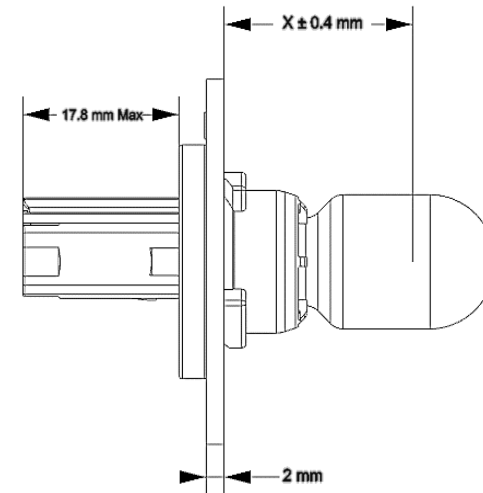
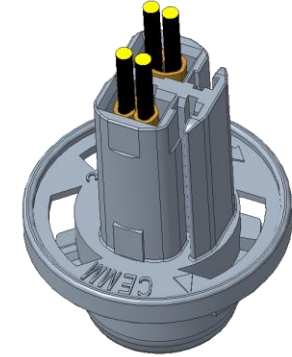
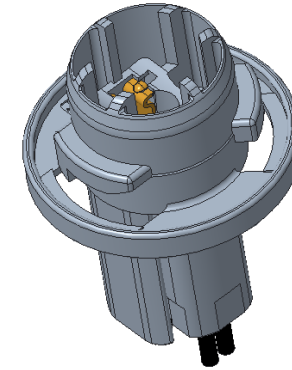


Socket material	PA46 or PA66
Socket color	Grey
Terminal material	CuSn6 Pre-Sn
Double crimping	Yes
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant

Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)
W16W	W2.1x9.5d	Single	Clear Amber	A	21.20
W5W	W2.1x9.5d	Single	Clear Amber	A	13.30
T3 ¼	W2.1x9.5d	Single	Clear Amber	A	14.80

Bulb Socket T5 (WBG)

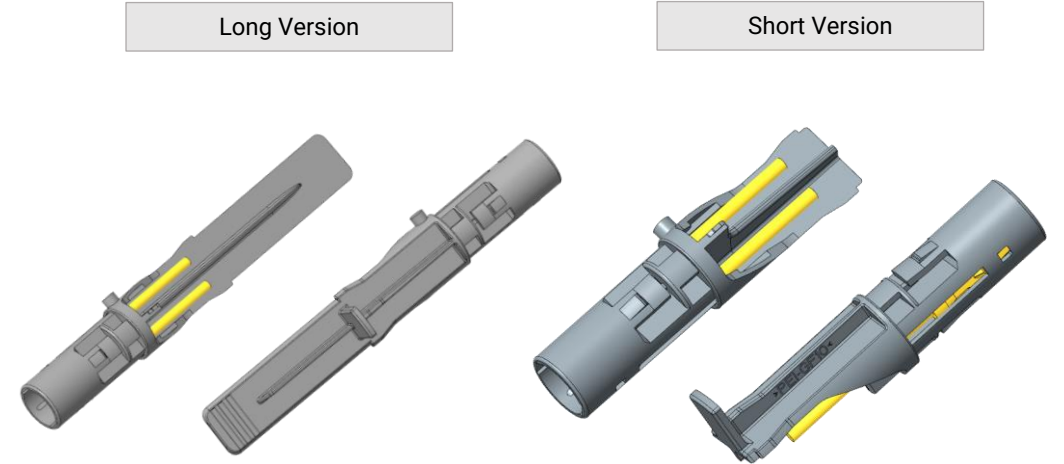
SERIAL PRODUCTION UNSEALED



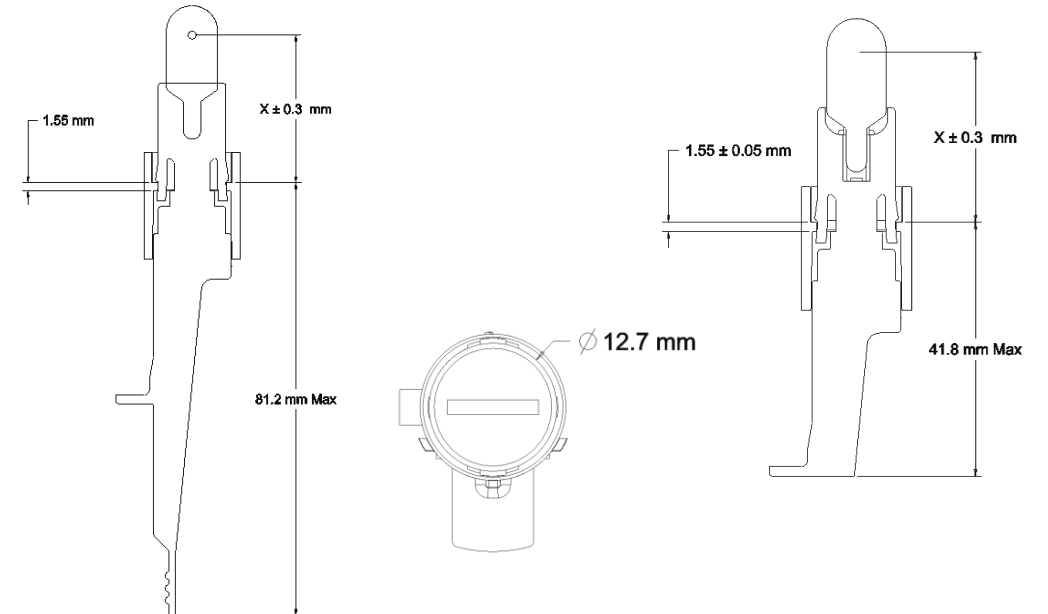
Bulb Socket T3-1/4 (WBE)

SERIAL PRODUCTION UNSEALED VALIDATED

Socket material	PEI GF10
Socket color	Light Grey
Terminal material	CuZn30 Pre-Sn
Double crimping	Yes
Handle	Yes, optional version
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15



Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)
W5W	W2.1x9.5d	Single	Clear Amber	V1 V2	25.70
T3 ¼	W2.1x9.5d	Single	Clear Amber	V2	27.20



Bulb Socket T3-1/4 (WBH)

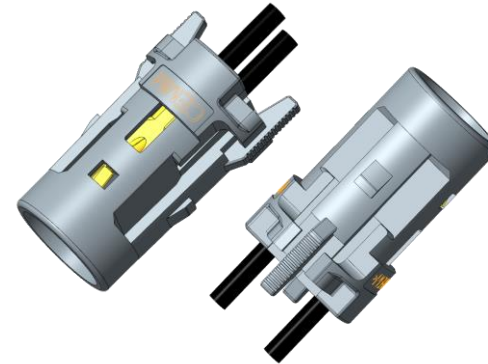
SERIAL PRODUCTION

UNSEALED

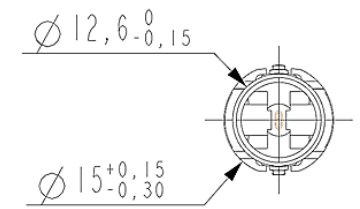
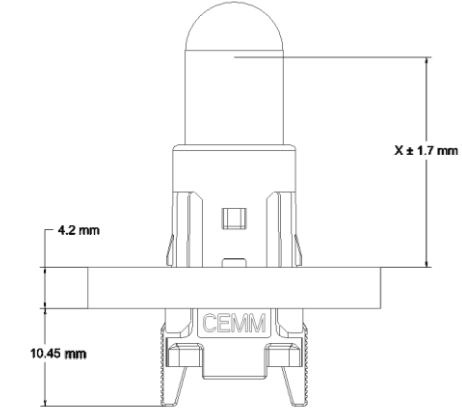
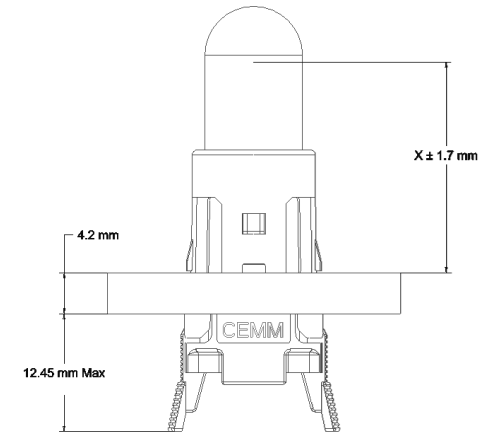
Socket material	PEI GF10
Socket color	Black or Light grey
Terminal material	CuZn30 Pre-Sn
Double crimping	Yes, all functions
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant

Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)
W5W	W2.1x9.5d	Single	Clear Amber	WBH	24.25
T3 ¼	W2.1x9.5d	Single	Clear Amber	WBH	25.75

Version 1



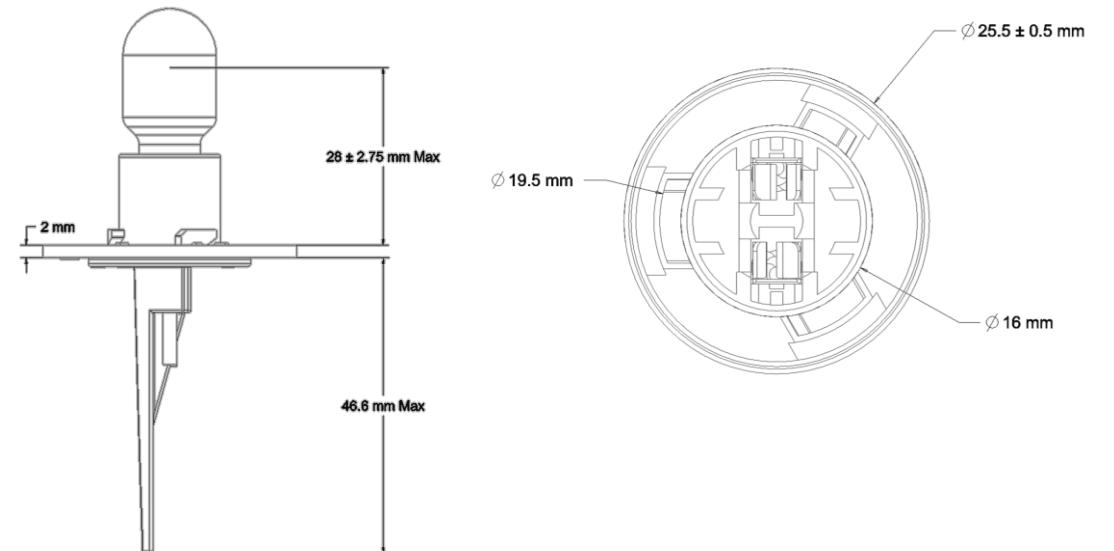
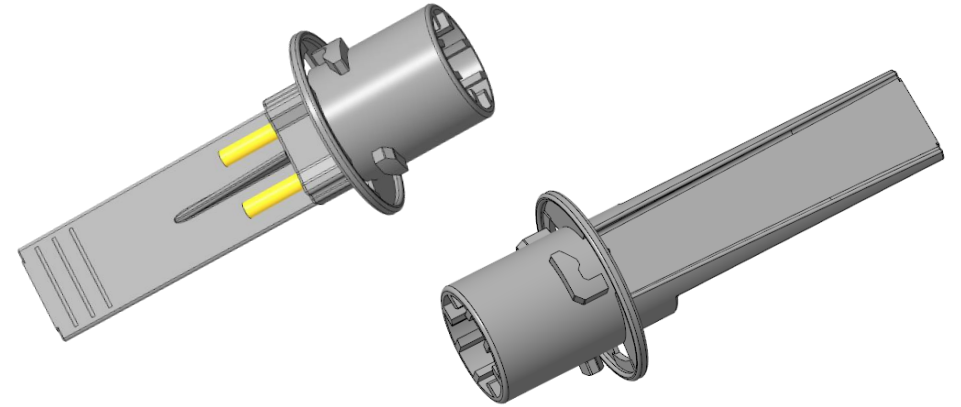
Version 2





SERIAL PRODUCTION UNSEALED VALIDATED

Socket material	PA46
Socket color	Grey
Terminal material	CuZn30 Pre-Sn
Double crimping	Yes
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant
Under standard	USCAR-15

Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)
W16W	W2.1x9.5d	Single	Clear Amber	A	28.00



IDENTIFICATION							DETAILS			BULB			BODY		TERMINAL		
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Part Number	Lug Pattern	Focal Length	Seal Plane Diameter	CAP IEC-60061	Filament	Category ECE	Color	Material	Material and cross section	Applicable Norm	Comments
H21W		Right angle wired socket	Unsealed	Clockwise	0006837	0006814	A	28	25.90	BAY9s	Single	H21W	Black	PEI GF10	Ground: CuZn30 Pre-Sn 0.5 - 1.5 mm ² Alimentation: CuSn6 Pre-Sn 0.5 - 1.5 mm ²		
						0006937	A						Grey				
HY21W					0007157	0006815	A	28	25.90	BAW9s	Single	HY21W	Grey				
H21W COVER		Right angle	Unsealed	NA	0006816	0006817	NA	NA	NA	NA	NA	NA	Black	PA66	NA	NA	
			Unsealed	NA		0006918							Grey		NA	NA	

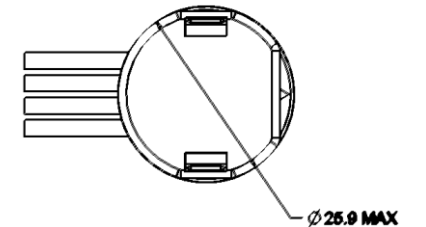
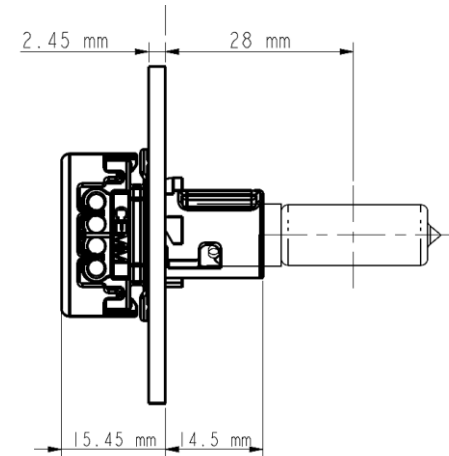
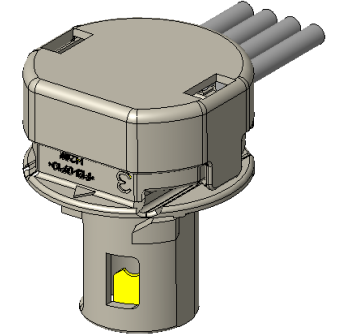
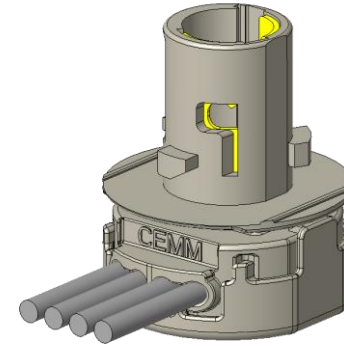
Bulb Socket H21W & HY21W





SERIAL PRODUCTION

UNSEALED

Socket material	PEI GF10
Socket color	Black or Light grey
Terminal material	Alimentation: CuSn6 Pre-Sn Ground: CuZn30
Double crimping	Yes
Handle	No
Lamp caps and holders	CEI / IEC 60061 compliant

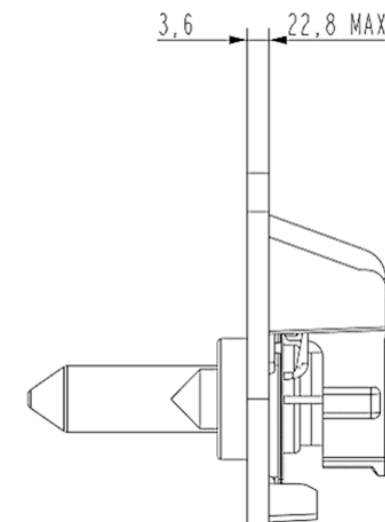
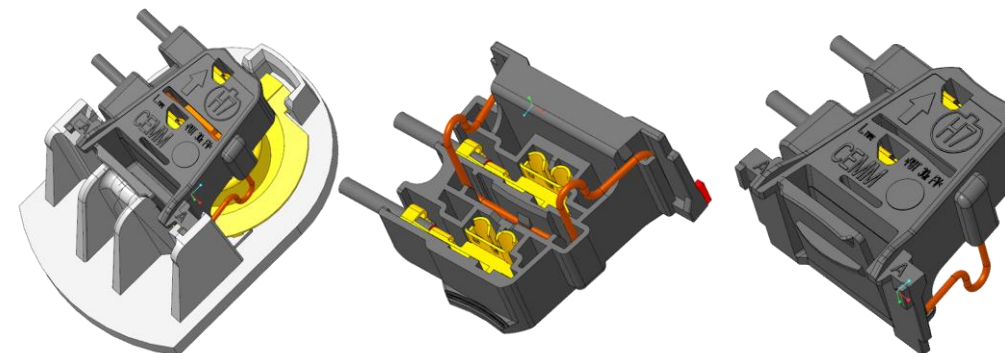
Category ECE	CAP	Filament	Color	Lug Pattern	Focal Length (x)
H21W	BAY9s	Single	Clear	A	28
HY21W	BAW9s	Single	Amber	A	28



IDENTIFICATION							DETAILS			BODY		TERMINAL		
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Part Number	CAP IEC-6006	Bulb Filament	Category ECE	Color	Material	Material and cross section	Applicable Norm	Comments
H1		Right angle wired socket	Unsealed	Clip on	0001427	0001434	P14.5s	Single	H1	Black	PBT GF30	CuSn6 1 to 1.5 mm ²		Ergonomic H1 Connector Easy fit Connector configuration
H7		Right angle wired socket	Unsealed	Clip on	0005546	0006006	PX26d	Single	H7	Black	PBT GF30	CuSn6 Steel nickel plated M8K55 R620 1 to 1.5 mm ²		Without bulbshield Easy fit Socket configuration
					0001559	0001316								Ergonomic H7 Connector Easy fit Connector configuration
H9 H11 H8		Axial connector	Unsealed	Clip on	0006334	0006332	PGJ19-5	N/A	H9	Grey	PA46	CuNiSi Selective Gold 1 mm ²	USCAR-2	Validated with CuNiSi gold plate terminal
						0006333	PGJ19-2		H11	Black		JPT Tyco Terminals: CuSn4 Pre-Sn		
						0006337	PGJ19-1		H8	Light Grey	PA46	JPT Tyco Terminals: CuSn4 Pre-Sn		
						0006807	PGJ19-5		H9	Grey				
						0006808	PGJ19-2		H11	Black			PBT	
						0006809	PGJ19-1		H8	Light Grey				
HIR2 HB4 HB3		Axial connector	Unsealed	Clip on	0007098	0007097	PX22d	N/A	HB4	Black	PA46	CuNiSi Selective Gold	USCAR-2	Validated as a family of H11 with CuNiSi gold plated terminal
					0007098	0006948	P20d	N/A	HB3	Grey				
					0006935	0006936	P22d	N/A	HIR2	Black		CuSn4 Pre-Sn or CuNiSi Selective Gold		

Connector material	PBT GF30
Connector color	Black
Terminal material	CuSn6
Double crimping	Yes
Handle	No
Under standard	CEMM THOME internal validation. Used by Ford and Fiat

Type	Retainer type	Bulb retainer	Comment
Socket	Plastic (molded in housing)	No	Bulb extracted with socket during socket removal
Socket	Metallic clip + screw	No	Bulb extracted with socket during socket removal
Connector	Plastic (molded in housing)	Yes	Bulb stays in bezel during connector removal

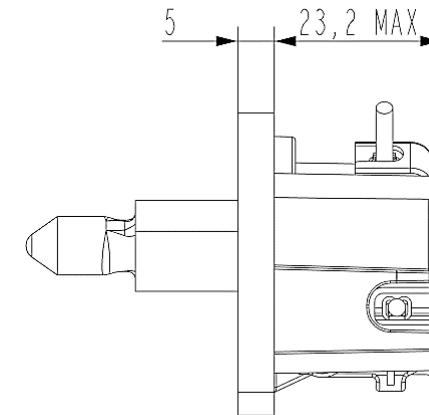
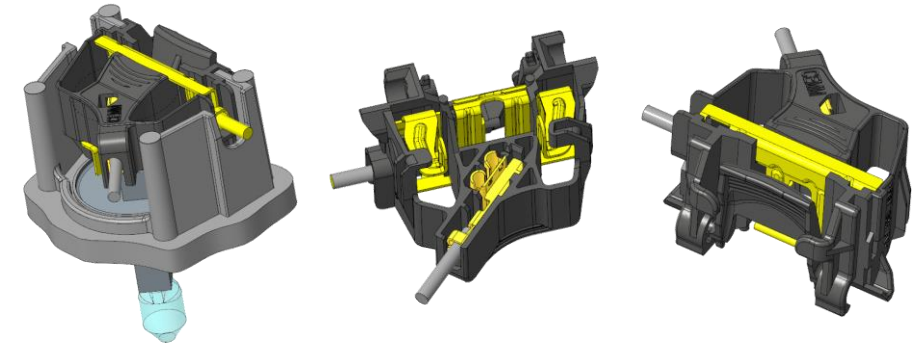


Connector H1 (One-hand release)

SERIAL PRODUCTION UNSEALED

Connector material	PBT GF30
Connector color	Black
Terminal material	CuSn6
Double crimping	Yes
Handle	No
Under standard	CEMM THOME internal validation. Used by Ford and Fiat

Type	Retainer type	Bulb retainer	Comment
Connector	Plastic (molded in housing)	Yes	Bulb stays in bezel during connector removal

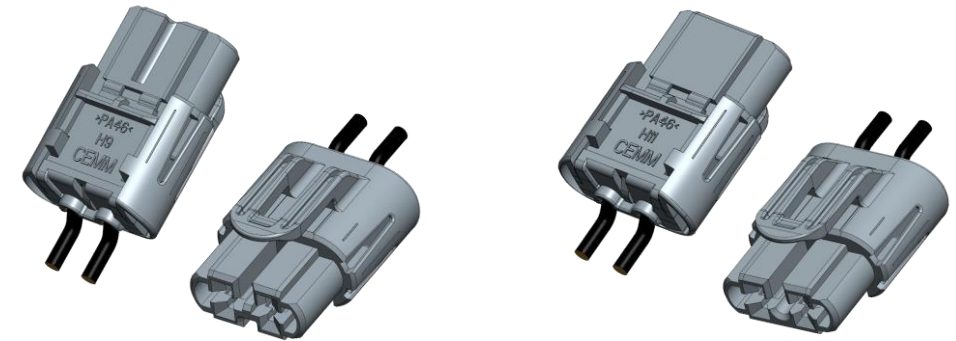


SERIAL PRODUCTION UNSEALED VALIDATED

Connector material	PA46 or PBT
Connector color	Black or grey
Terminal material	CuSn4 or CuNiSi
Double crimping	No
Handle	No
Under standard	USCAR-2 only for PA46 and CuNiSi

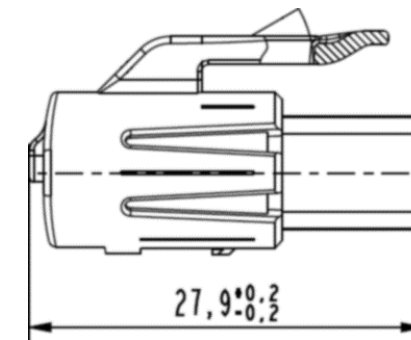
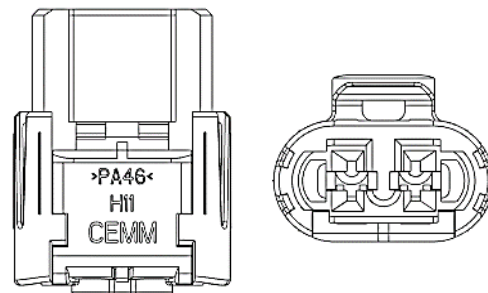
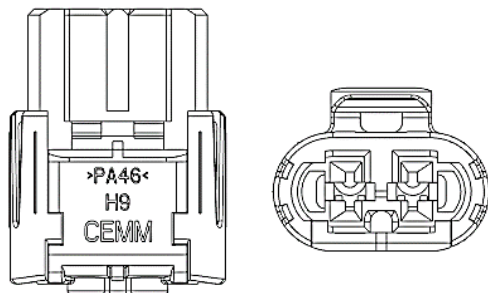
H9 Version

H11 & H8 Version



H9 Version

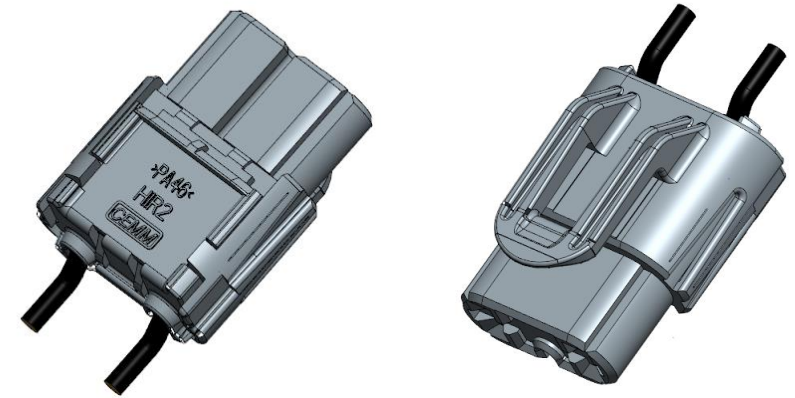
H11 & H8 Version



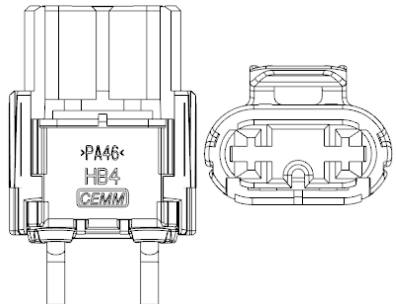
Connector HB3-HB4-HIR2 (One-hand release)

SERIAL PRODUCTION UNSEALED VALIDATED

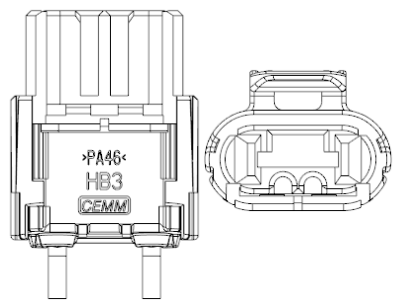
Connector material	PA46
Connector color	Black or grey
Terminal material	CuSn4 or CuNiSi
Double crimping	No
Handle	No
Under standard	USCAR-2 only for CuNiSi



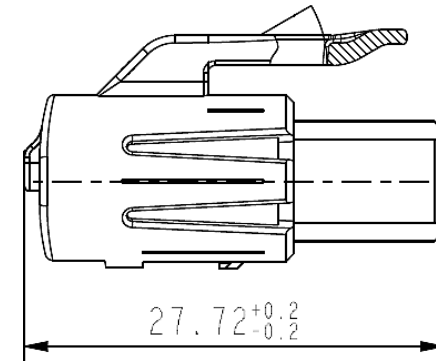
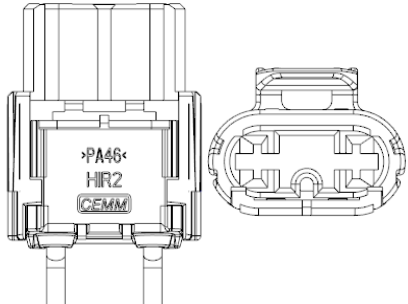
HB4 Version





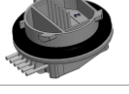



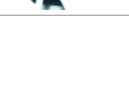


HB3 Version



HIR2 Version

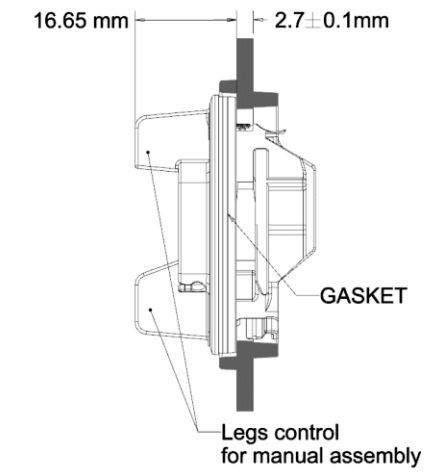
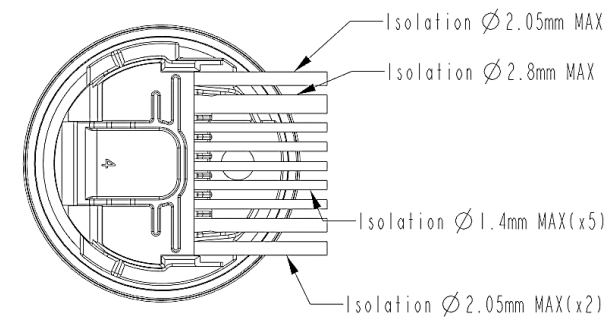
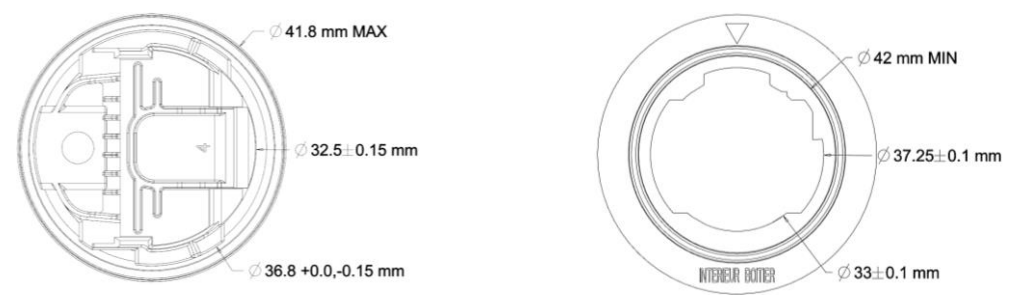
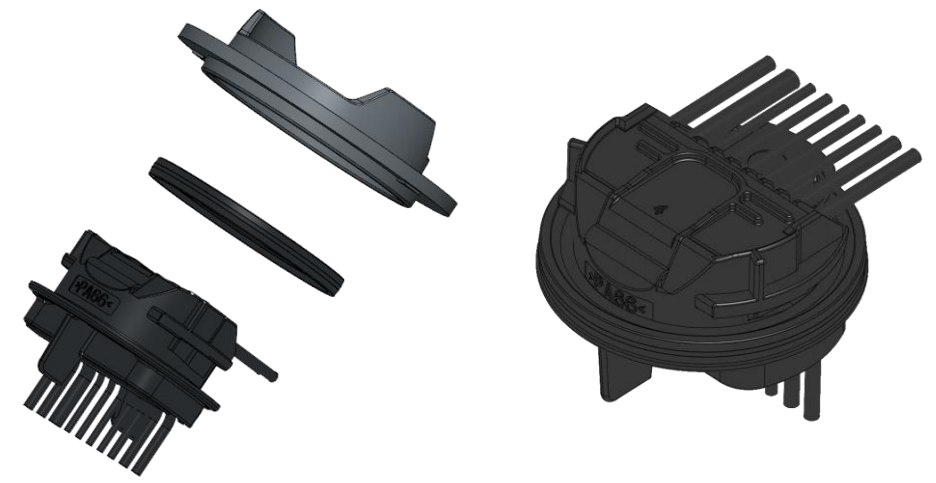


IDENTIFICATION							DETAILS				
CEMM Type	Generic Picture	Configuration	Product Type	Locking	Customer Drawing	Part Number	Main Hole Diameter	Seal Plane Diameter	Body Color	Body Material	Comments
Grommet 1/4 turn		Right angle wire transfer grommet	Sealed	Clockwise	0006098	0006091	32.5 mm	41.80 mm	Black	PA66	Restricted 10 wires transfer
						0006092					Restricted 4 wires transfer
						0007084					0007083
Grommet 1/4 turn 10-Ways		Axial wire transfer	Sealed	Clockwise	0006942	0006951	30 mm	43.50 mm	Black	PA66	8 wires (0.5 - 1 mm ²) 2 wires (1.5 mm ²)
						0007813					8 wires (0.35 mm ²) 2 wires (0.5 mm ²)
Grommet 1/4 turn 7-Ways		Axial wire transfer	Sealed	Clockwise	0007052	0007053	40 mm	53.50 mm	Black	PA66	2 wires (0.5 - 1.0 mm ²) 3 wires (1.0 - 1.5 mm ²) 2 wires (1.5 - 2.0 mm ²)
						0007832			Grey		3 wires (0.35 mm ²) 2 wires (0.5 mm ²) 2 wires (1.5 mm ²)
Grommet 1/4 turn 4-Ways		Right angle wire transfer	Sealed	Clockwise	0007085	0007062	26 mm	35.8 mm	Grey	PA66	4 wires (0.35 mm ²)
Grommet 1/4 turn 6-Ways		Right angle wire transfer	Sealed	Clockwise	0007487	0007486	26 mm	35.8 mm	Grey	PA66	2 to 6 wires (0.35mm ²)
Grommet 1/4 turn 6-Ways		Axial wire transfer	Sealed	Clockwise	0007309	0007310	21 mm	34.70 mm	Black	PA66	2 to 6 wires (0.35mm ²)
Grommet 1/4 turn 4 Ways		Right angle wire transfer	Sealed	Clockwise	0007312	0007313	16 mm	25.9 mm	Grey	PA66	2 to 4 wires (0.35mm ²)
Camera Grommet		35° wire transfer	Over molded sealed	Clip on	0007071	0007060	N/A	43 x 30.50 mm	Black	PVC	Restricted for Ventra (Ford)
Grommet 1/4 turn 2 Ways		Right angle wire transfer	Sealed	Clockwise	0006993	0007296	10.45 mm	17.30 mm	Black	PA46	2 wires transfer
						0006992				PA66	

Grommet material	PA66
Grommet color	Black
Wire gauge	0.5 mm ² to 2.5 mm ²

Type	Main Hole (MM)	Lug Hole (MM)	Seale Plate (MM)
Body	32.5	36.8	41.8
CTP	33	37.25	42.3

Grommet 1/4 Turn
SERIAL PRODUCTION SEALED

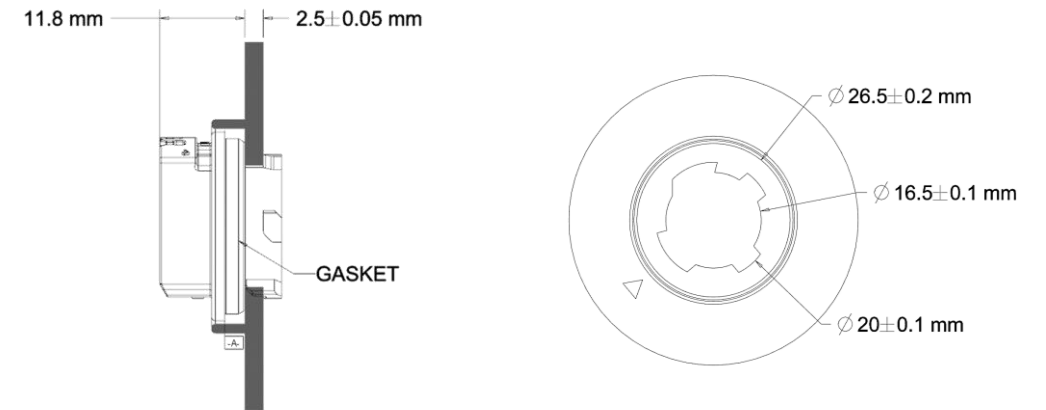
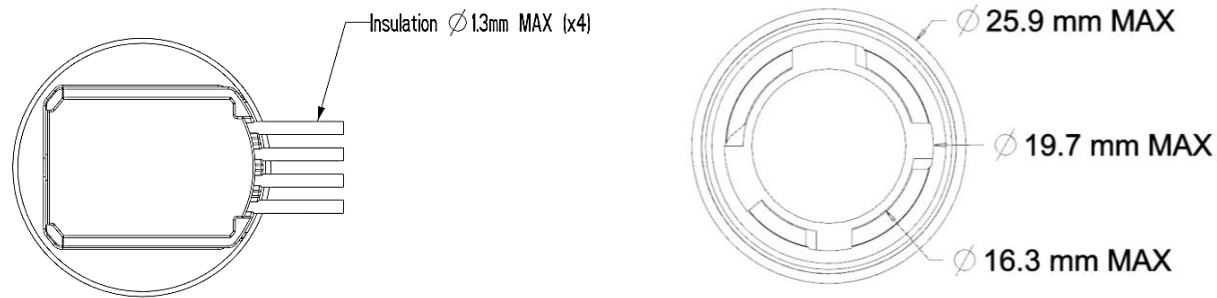
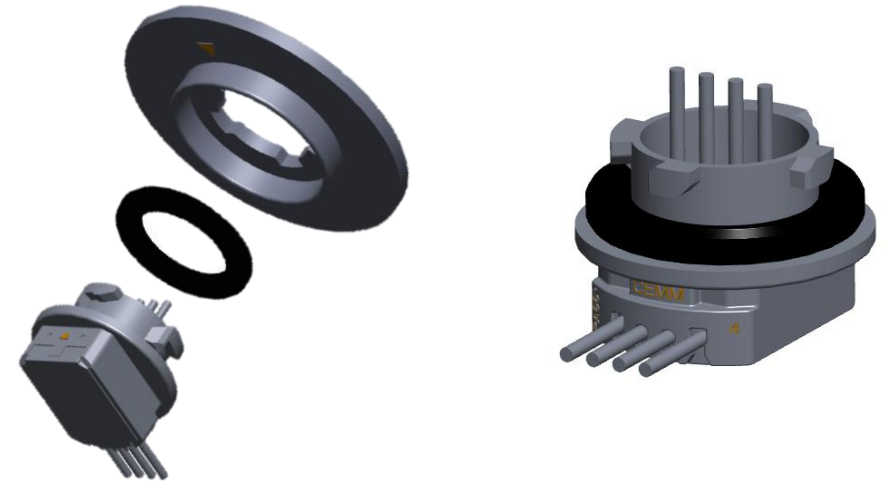


4W Grommet / 16 mm Main Hole

SERIAL PRODUCTION **SEALED**

Grommet material	PA66
Grommet color	Black
Wire gauge	0.35 mm ²

Type	Main Hole (MM)	Lug Hole (MM)	Seale Plate (MM)
Body	16.3	19.7	25.9
CTP	16.5	20	26.5

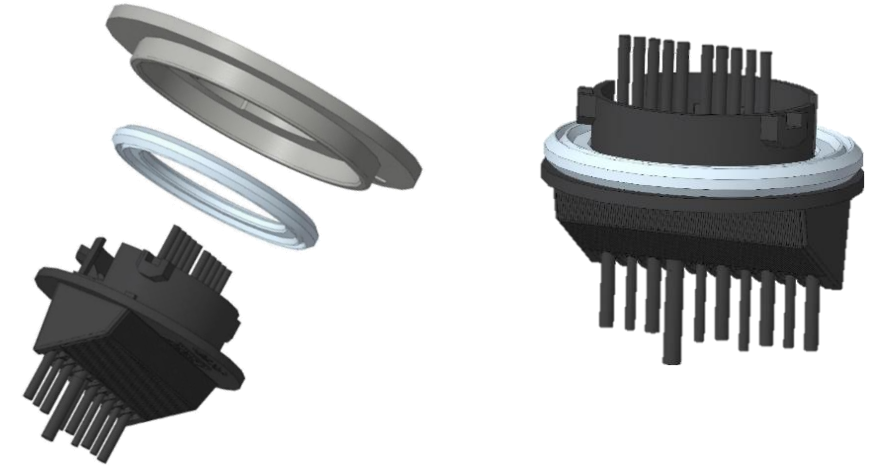


10W Grommet / 30 mm Main Hole

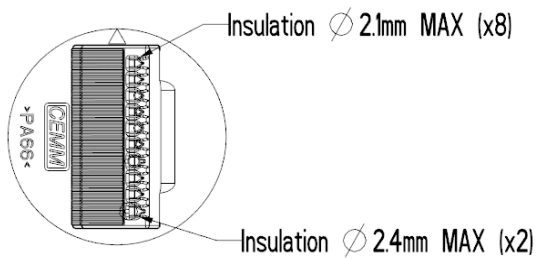
SERIAL PRODUCTION SEALED

Grommet material	PA66	
Grommet color	Black	
Wire gauge	8 wires (0.5 mm ² to 1 mm ²) 2 wires (1.5 mm ²)	8 wires (0.35 mm ²) 2 wires (0.5 mm ²)

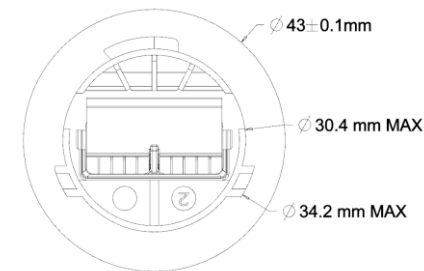
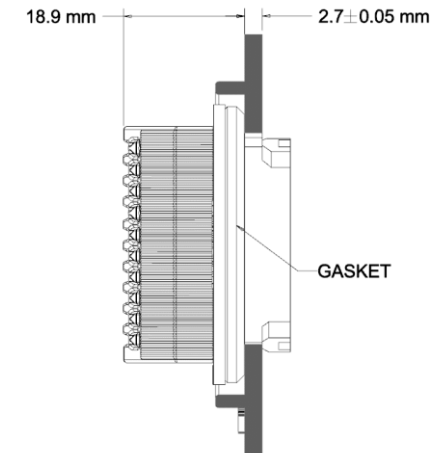
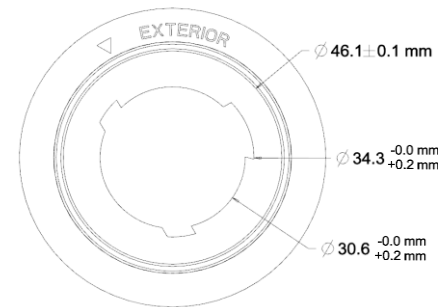
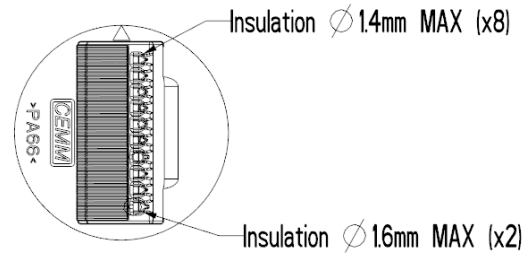
Type	Main Hole (MM)	Lug Hole (MM)	Seale Plate (MM)
Body	30.4	34.2	43
CTP	30.6	34.3	46.1



Part Number: 0007813



Part Number: 0006951



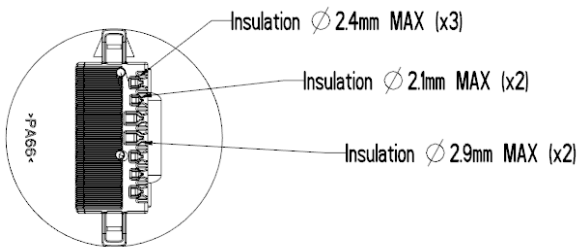
SERIAL PRODUCTION **SEALED**

Grommet material	PA66	
Grommet color	Black & grey	
Wire gauge	2 wires (0.5 mm ² - 1.0 mm ²)	3 wires (0.35 mm ²)
	3 wires (1.0 mm ² - 1.5 mm ²)	2 wires (0.5 mm ²)
	2 wires (1.5 mm ² - 2.0 mm ²)	2 wires (1.5 mm ²)

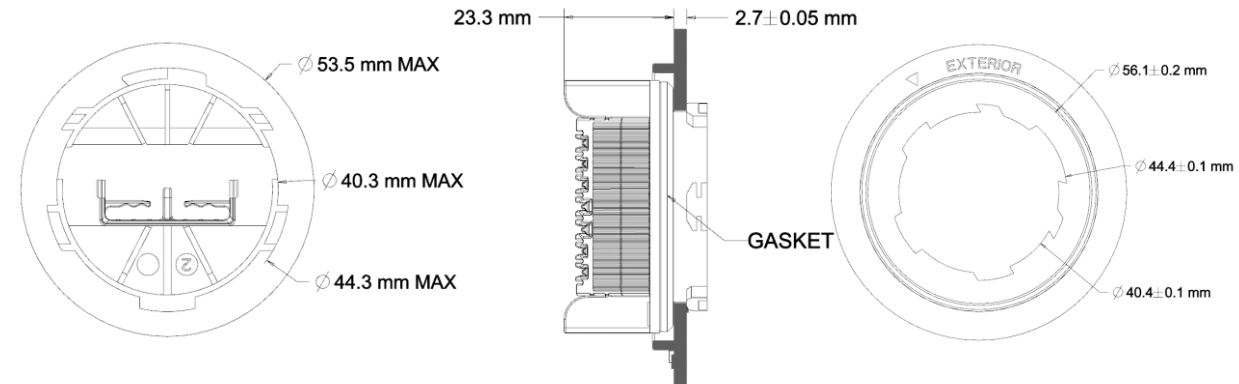
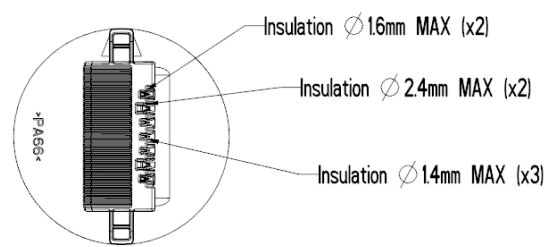
Type	Main Hole (MM)	Lug Hole (MM)	Seale Plate (MM)
Body	40.3	44.3	53.5
CTP	40.4	44.4	56.1



Part Number: 0007053



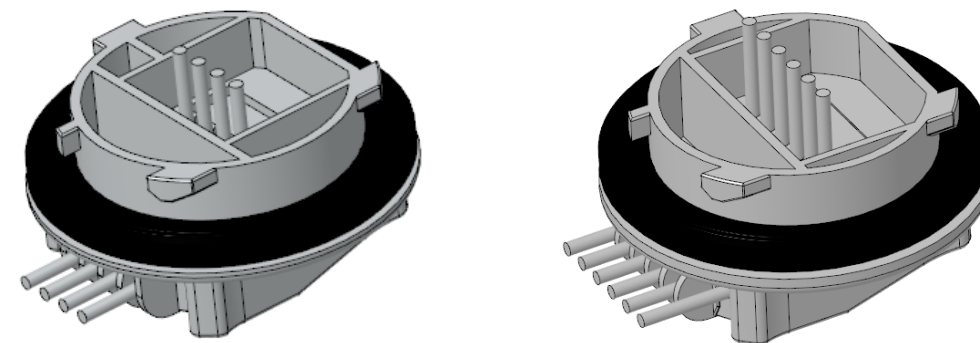
Part Number: 0007832



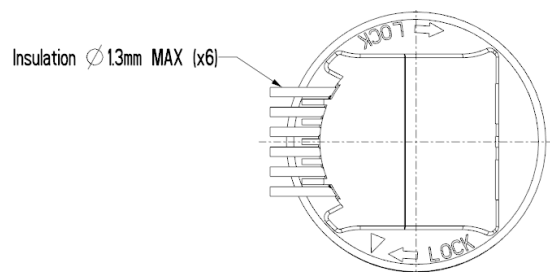
SERIAL PRODUCTION SEALED

Grommet material	PA66
Grommet color	Grey
Wire gauge	0.35 mm ²

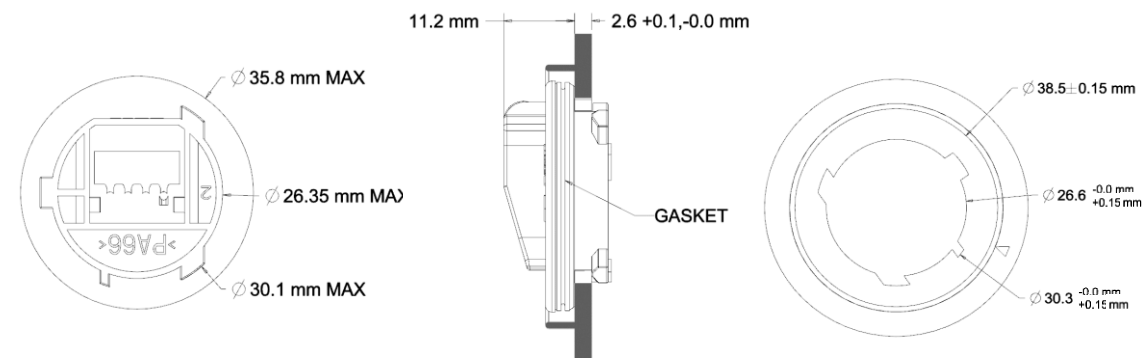
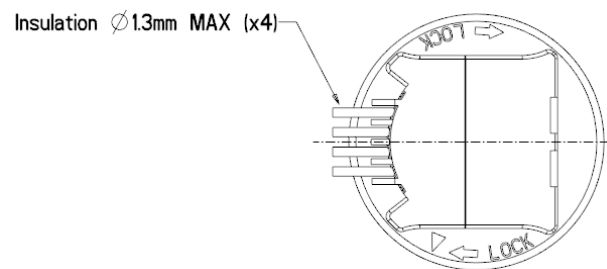
Type	Main Hole (MM)	Lug Hole (MM)	Seale Plate (MM)
Body	26.35	30.1	35.8
CTP	26.6	30.3	38.5



Part Number: 0007486



Part Number: 0007062

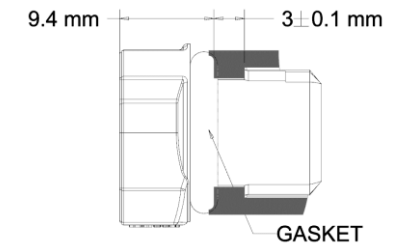
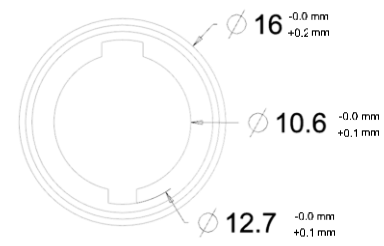
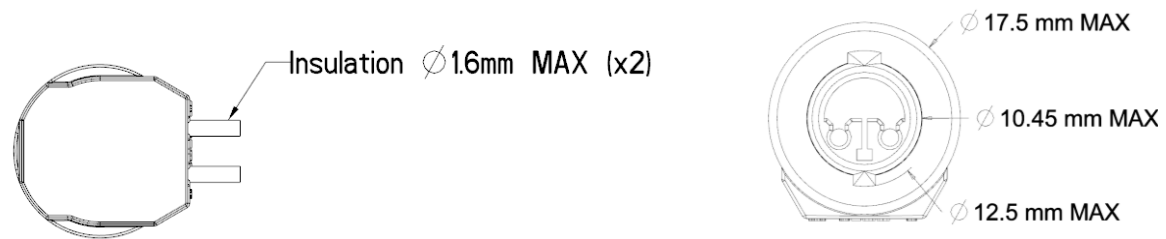
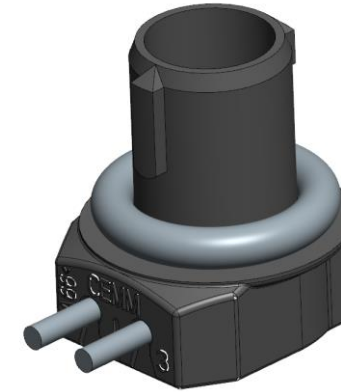


2W Grommet / 10.45 mm Main Hole

SERIAL PRODUCTION SEALED

Grommet material	PA66
Grommet color	Black
Wire gauge	0.35 mm ² to 0.5 mm ²

Type	Main Hole (MM)	Lug Hole (MM)	Seale Plate (MM)
Body	10.3	12.2	17.3
CTP	10.6	12.7	16





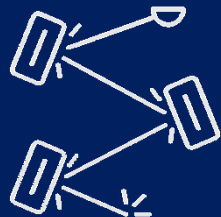
DESIGN

DEVELOP

PRODUCE

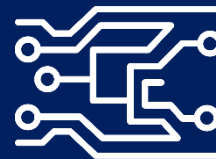
OPTICS

Software: SPEOS, Lucid Shape
Hardware: Spectrometer,
Luminance Camera, Luxmeter, etc.



ELECTRONICS

Software: Altium Designer
Hardware: IR camera, ESD
equipment, SMD prototyping



MECHANICAL

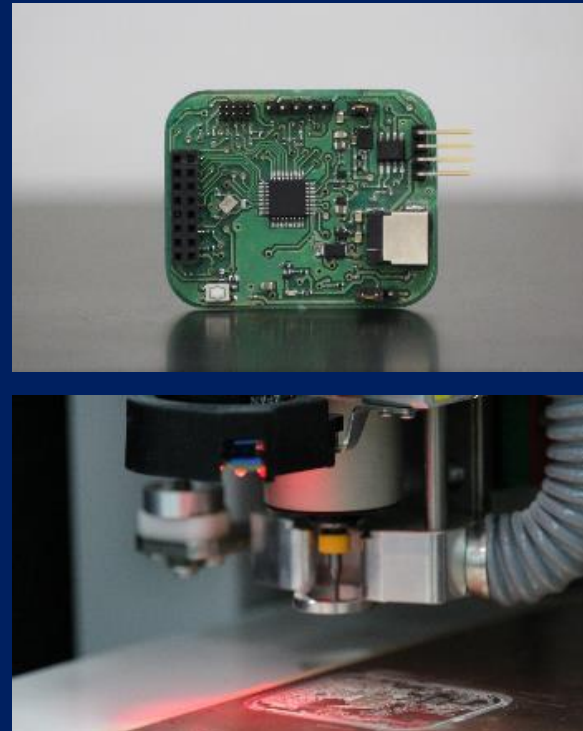
Software: Catia V5, CREO and Ansys
Hardware: Prototyping, 2D/3D
coordinate measurement



OPTICS



ELECTRONICS



MECHANICAL



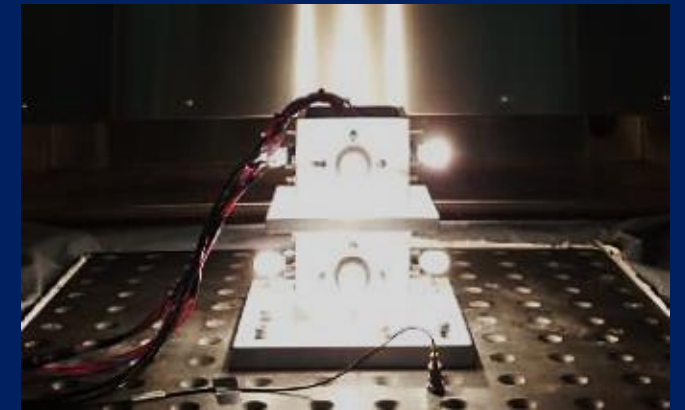
ENVIRONMENTAL



TEMPERATURE



VIBRATION



METROLOGY



MECHANICAL



REVERSE ENGINEERING



WHY CEMM THOME?

Design of customer mating interface with Cemm Thome component.

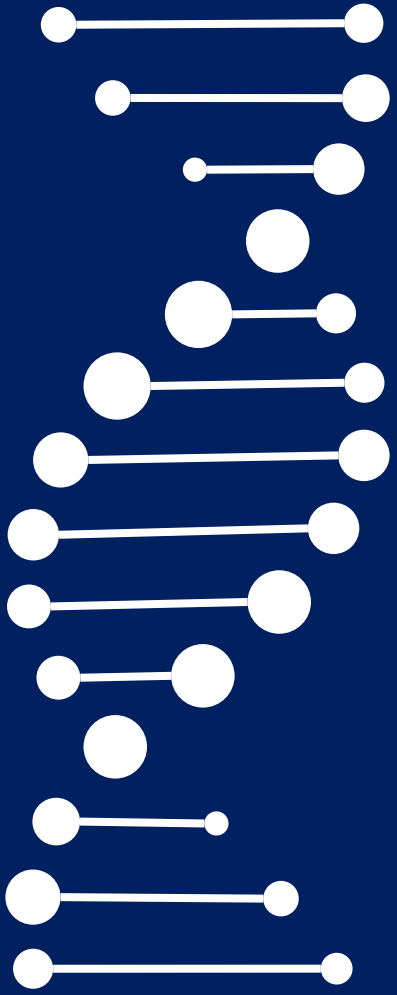
Support in customer product validation.

ACTNA components: 1 team 1 roof competitive price.

Customized design solutions.

Efficient production lines.

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