VanSystem

KVBS

Reverse bayonet connectors for railway applications

KVBS connector series derives from the RF CVBS one and it is based on Mil-DTL-5015 and VG95234 specs.
The most important advantages are the simpler and faster cable assembly.
The size 16 contact cavity has a wider internal diameter able to accept flame retardant cable.

Components materials have been chosen in order match railways vehicles requirements.

Key characteristics	Advantages
• 3 ramps reverse bayonet	• Reliable mating even under vibrations, shock and sealing requirements
• Thermoplastic contact holder and insulator	• Simpler and faster cable assembly
• Contacts retained by a high elasticity clip	• More reliable contact retention inside the insulator
• Front grommet	• When mated guarantee a better sealing and creepage distance between the contacts
• Rear side grommet supplied with holes closed by a flash of rubber and equipped with side gasket	• The connector can resist to axial pressure shock, the characteristics are mantained even when it is not fileld with all the contacts
• Size 16 contact cavity has a wider internal diameter	• Contacts size 16 can accept 2.5mmq

Material and plating (*)

shells	Alluminium alloy – can be protected against corrosion with the following plating process: • Black epoxy varnish (not conductive) – RoHS compliant • CCF-Black passivation (conductive) – RoHS compliant
Insulators	Thermoplastic resin according to UL 94 V0, flame retardant according to EN 45545-2 HL3 R22/23
Front side grommet	flame retardant rubber according to EN 45545-2
contacts	copper alloy – silver or gold plated

(*)different materials and platings can be used on application request.

General characteristics

working temperature	•	-40°C ÷ +100°C
Insulation resistance	•	> 5.000 MΩ

Rated voltage and Insulating characteristics (*)

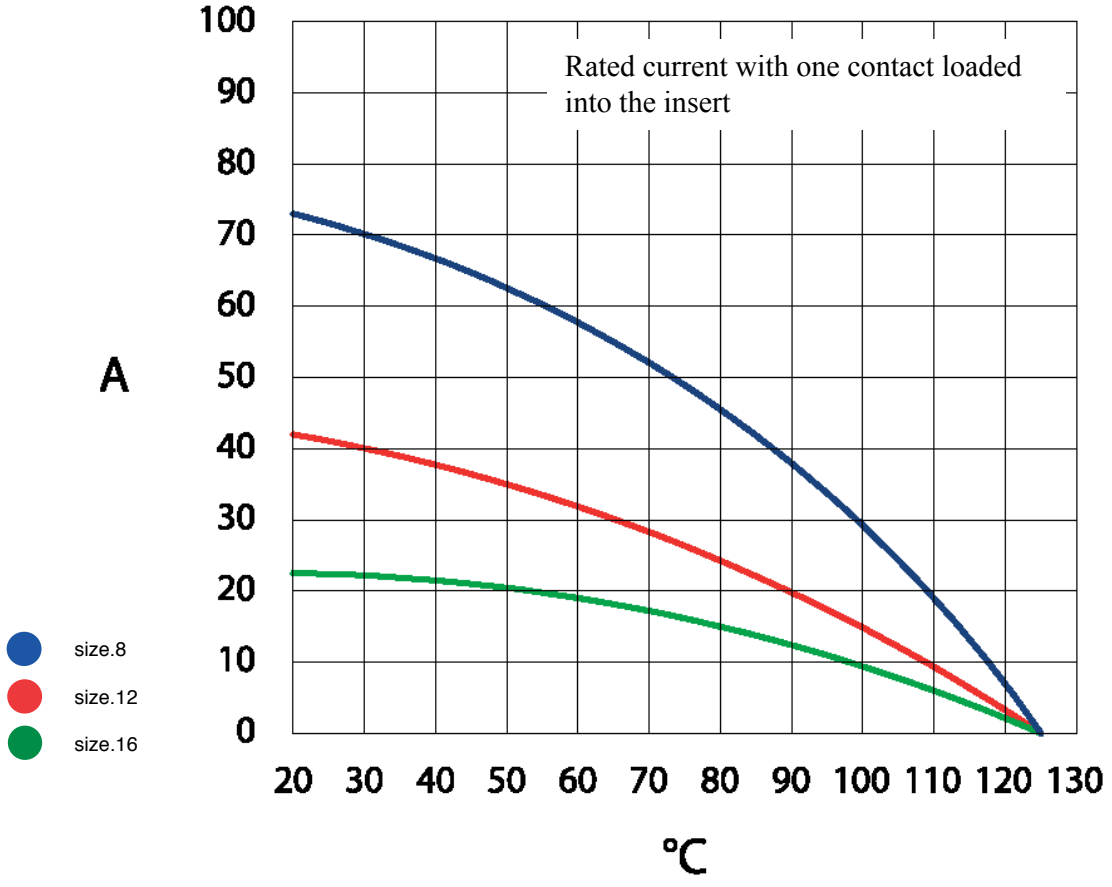
service rating	Operating voltage Vdc	Operating voltage Vac RMS	Test voltage Vac	Minimum flashover Vac RMS Min
A	700	500	2.000	2.800
D	1.250	900	2.800	3.600

(*) Values at sea level

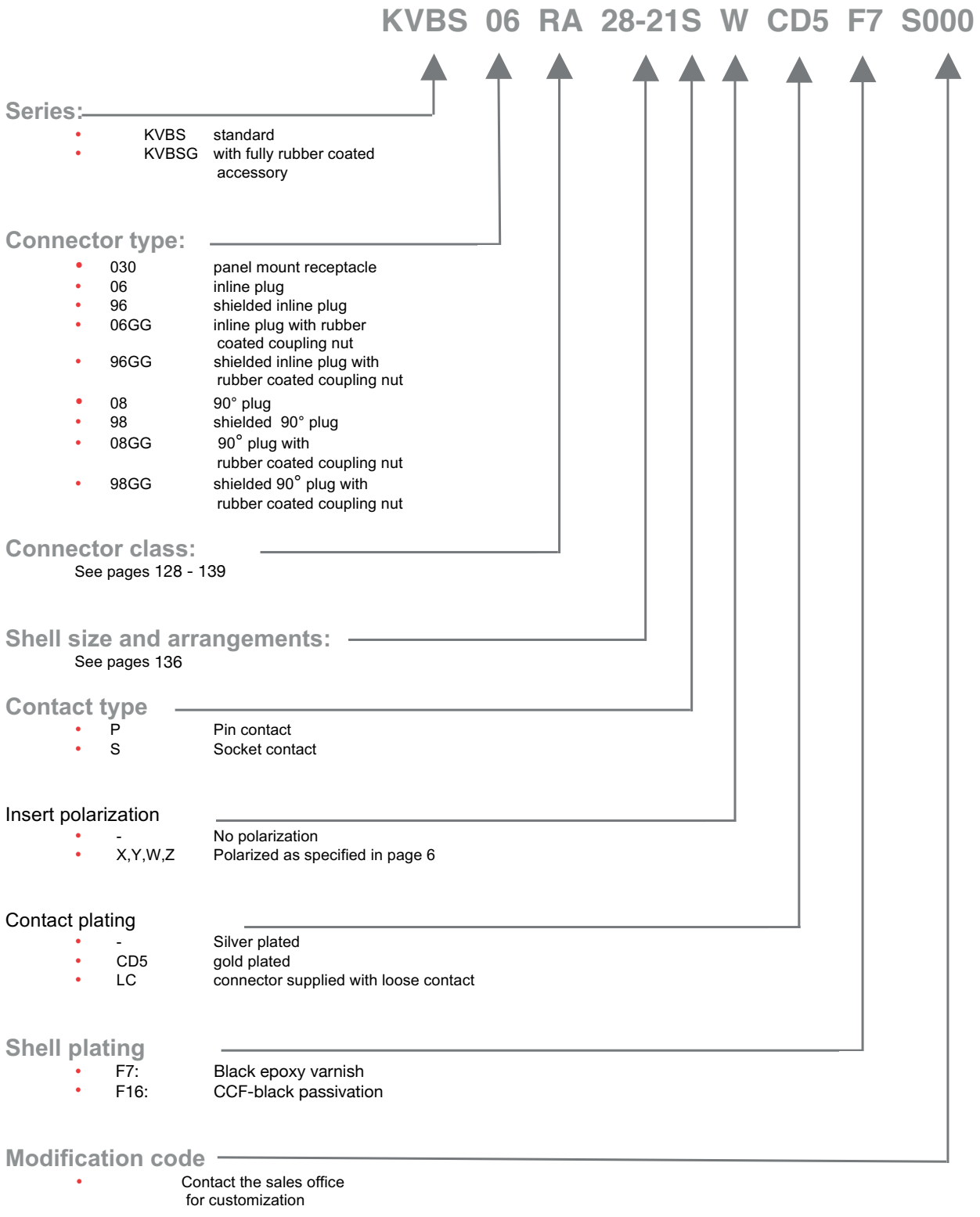
Insulation according to NFF 61030 (*)

Operating voltage Vdc	Operating voltage Vac RMS	Test voltage Vac	Creepage distance=Min insulation distance in air (*)
500	380	3.250	12 mm. Min

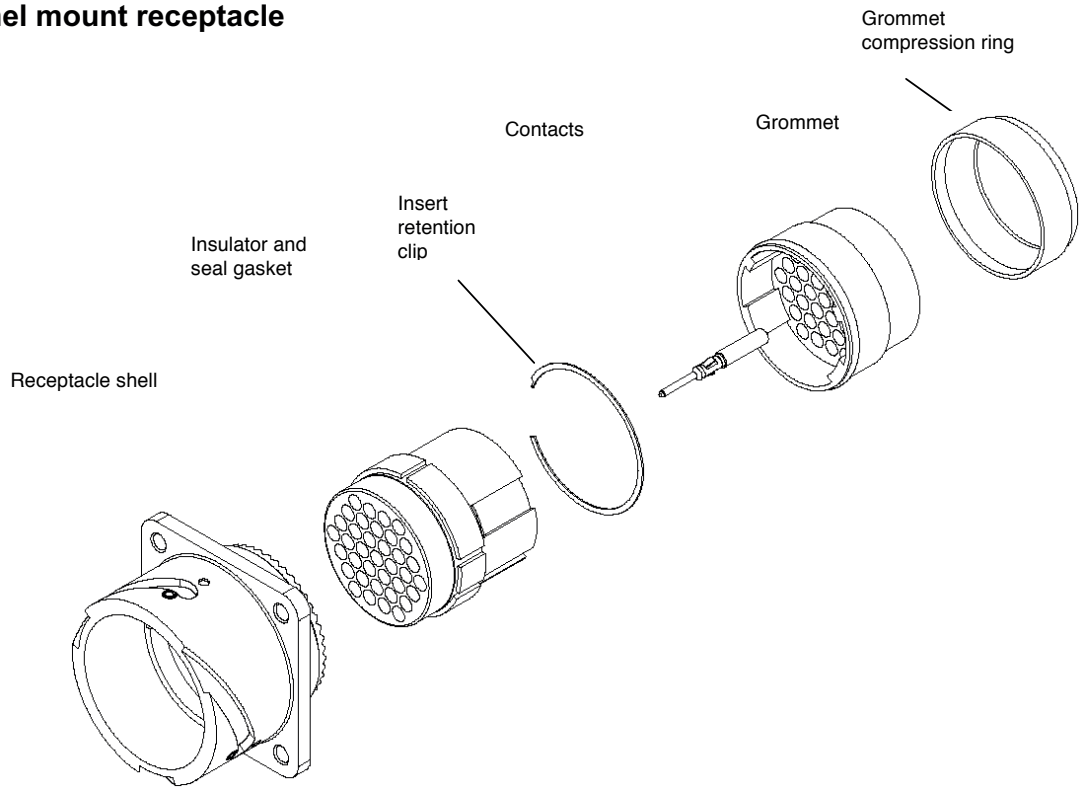
(*) Values are related to mated connectors



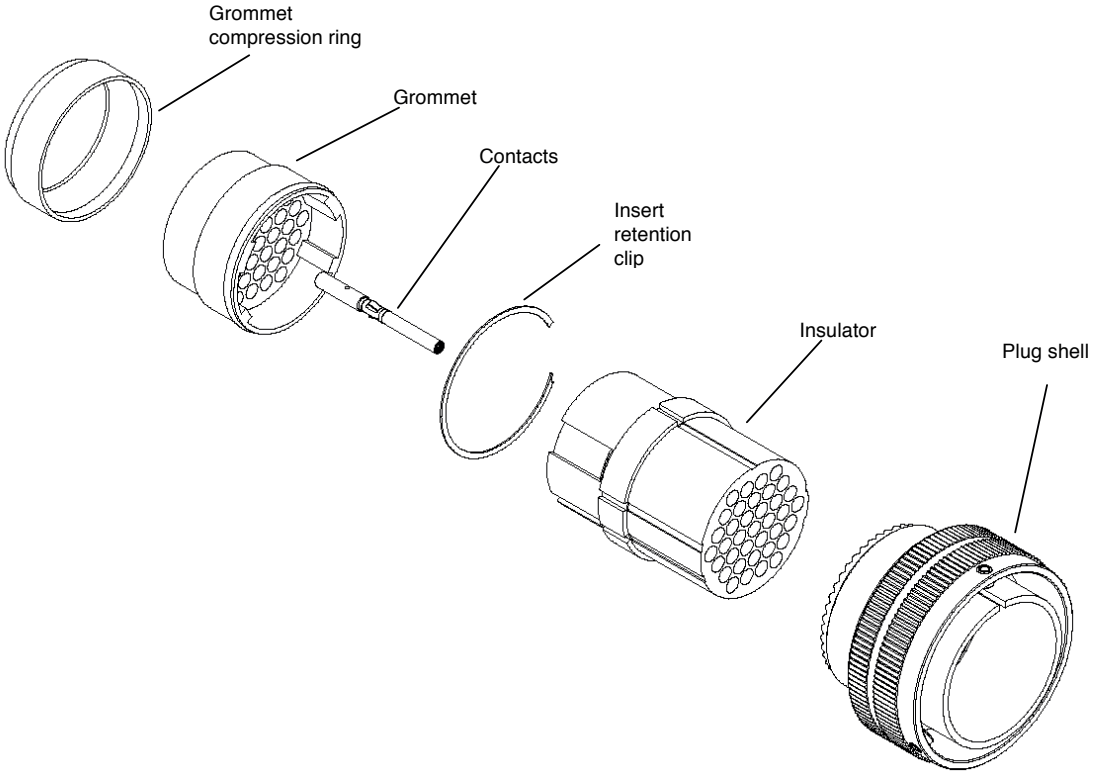
Part Number composition



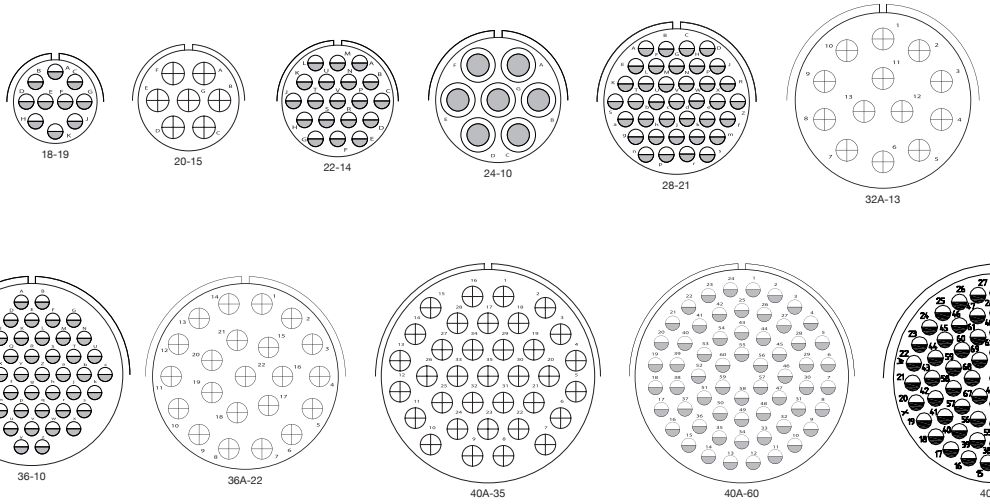
Panel mount receptacle



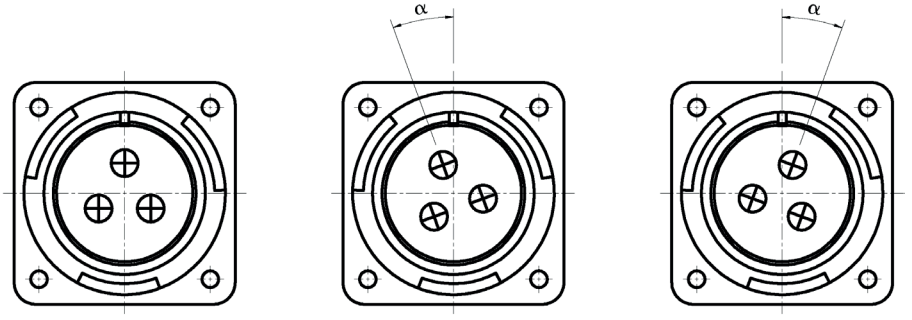
Plug



Arrangements



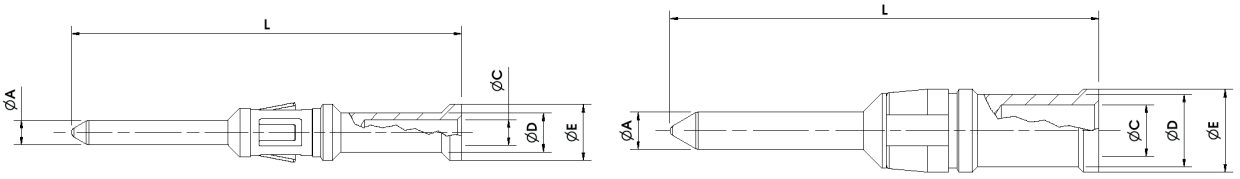
Arrangement	Number of contacts 8	12	16	Service Rating	Degree for alternate positions α W	X	Y	Z
18-19			10	A	-	120	240	-
20-15		7		A	80	-	-	280
22-14			19	A	80	-	-	280
24-10	7			A	80	-	-	280
28-21			37	A	80	110	250	280
32A13		13		D	65	130	230	295
36-10			48	A	80	125	235	280
36A22		22		D	80	110	250	280
40A35		35		D	70	130	230	290
40A60			60	A	80	110	250	280
40A70			70	A	80	110	250	280



Front view female insert

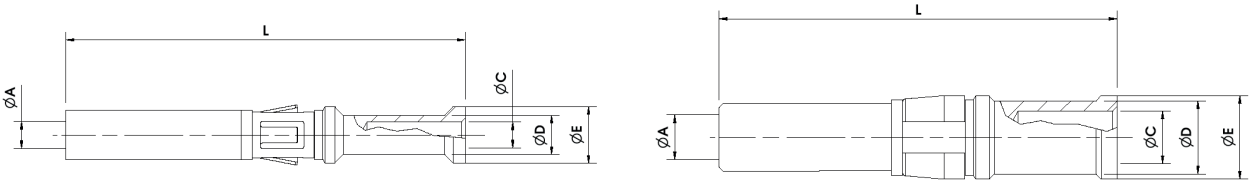
Front view male insert

Male crimp contact



Size	Silver plated Van-System P/N	Gold plated Van-System P/N	cable cross section		ØA	ØE	ØC	ØD	L
			mmq	AWG	+0 -0.1	±0.1	±0.1	±0.1	±0.2
16	KT485 16-13P*	KT485 16-13P CD5*	0.15÷0.6	26÷20	1.57	3.7	1.3	1.93	33.40
16	KT485 16-12P	KT485 16-12P CD5	0.5÷0.75		1.57	3.7	1.2	2.6	33.40
16	KT485 16-20P	KT485 16-20P CD5	1÷2	18÷14	1.57	3.7	2.0	2.9	33.40
16	KT485 16-26P	KT485 16-26P CD5	2.5÷3		1.57	3.7	2.5	3.8	33.40
12	KT485 12-12P	KT485 12-12P CD5	0.6	20	2.37	5.5	1.2	2.6	38.20
12	KT485 12-20P	KT485 12-20P CD5	1÷2	18÷14	2.37	5.5	2.0	3.8	38.20
12	KT485 12-26P*	KT485 12-26P CD5*	2.5÷3		2.37	5.5	2.5	3.8	38.20
12	KT485 12-30P	KT485 12-30P CD5	4	-	2.37	5.5	3.0	4.8	38.20
12	KT485 12-38P	KT485 12-38P CD5	6	-	2.37	5.5	3.6	4.8	38.20
8	KT485 8-15P	KT485 8-15P CD5	1	-	3.59	8.0	1.5	3.4	41.70
8	KT485 8-22P	KT485 8-22P CD5	2.5	-	3.59	8.0	2.2	3.8	41.70
8	KT485 8-30P*	KT485 8-30P CD5*	4	-	3.59	8.0	3.0	4.8	41.70
8	KT485 8-38P	KT485 8-38P CD5	6	-	3.59	8.0	3.6	4.8	41.70
8	KT485 8-50P*	KT485 8-50P CD5*	10	-	3.59	8.0	5.0	7.0	41.70

Female crimp contact

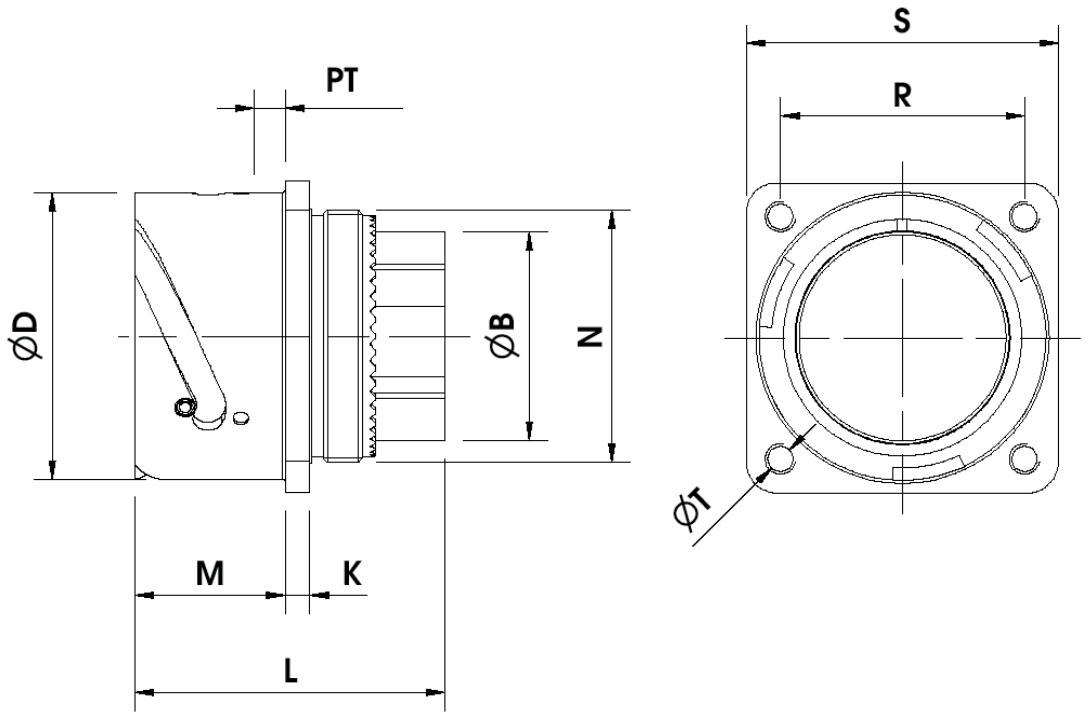


size	Silver plated Van-System P/N	Gold plated Van-System P/N	cable cross section		ØA	ØE	ØC	ØD	L
			mmq	AWG	+0 -0.1	±0.1	±0.1	±0.1	±0.2
16	KT485 16-13S*	KT485 16-13S CD5*	0.15÷0.6	26÷20	1.65	3.7	1.3	1.93	38.4
16	KT485 16-12S	KT485 16-12S CD5	0.5÷0.75		1.65	3.7	1.2	2.6	38.4
16	KT485 16-20S	KT485 16-20S CD5	1÷2	18÷14	1.65	3.7	2.0	2.9	38.4
16	KT485 16-26S	KT485 16-26S CD5	2.5÷3		1.65	3.7	2.5	3.8	38.4
12	KT485 12-12S	KT485 12-12S CD5	0.6	20	2.48	5.5	1.2	2.6	38.7
12	KT485 12-20S	KT485 12-20S CD5	1÷2	18÷14	2.48	5.5	2.0	3.8	38.7
12	KT485 12-26S*	KT485 12-26S CD5*	2.5÷3		2.48	5.5	2.5	3.8	38.7
12	KT485 12-30S	KT485 12-30S CD5	4	-	2.48	5.5	3.0	4.8	38.7
12	KT485 12-38S	KT485 12-38S CD5	6	-	2.48	5.5	3.6	4.8	38.7
8	KT485 8-15S	KT485 8-15S CD5	1	-	3.70	8.0	1.5	3.4	41.7
8	KT485 8-22S	KT485 8-22S CD5	2.5	-	3.70	8.0	2.2	3.8	41.7
8	KT485 8-30S*	KT485 8-30S CD5*	4	-	3.70	8.0	3.0	4.8	41.7
8	KT485 8-38S	KT485 8-38S CD5	6	-	3.70	8.0	3.6	4.8	41.7
8	KT485 8-50S*	KT485 8-50S CD5*	10	-	3.70	8.0	5.0	7.0	41.7

* on request

CONNECTOR SHELLS
03 Shell

Rear mounting receptacle connector unable to accept rear accessories.

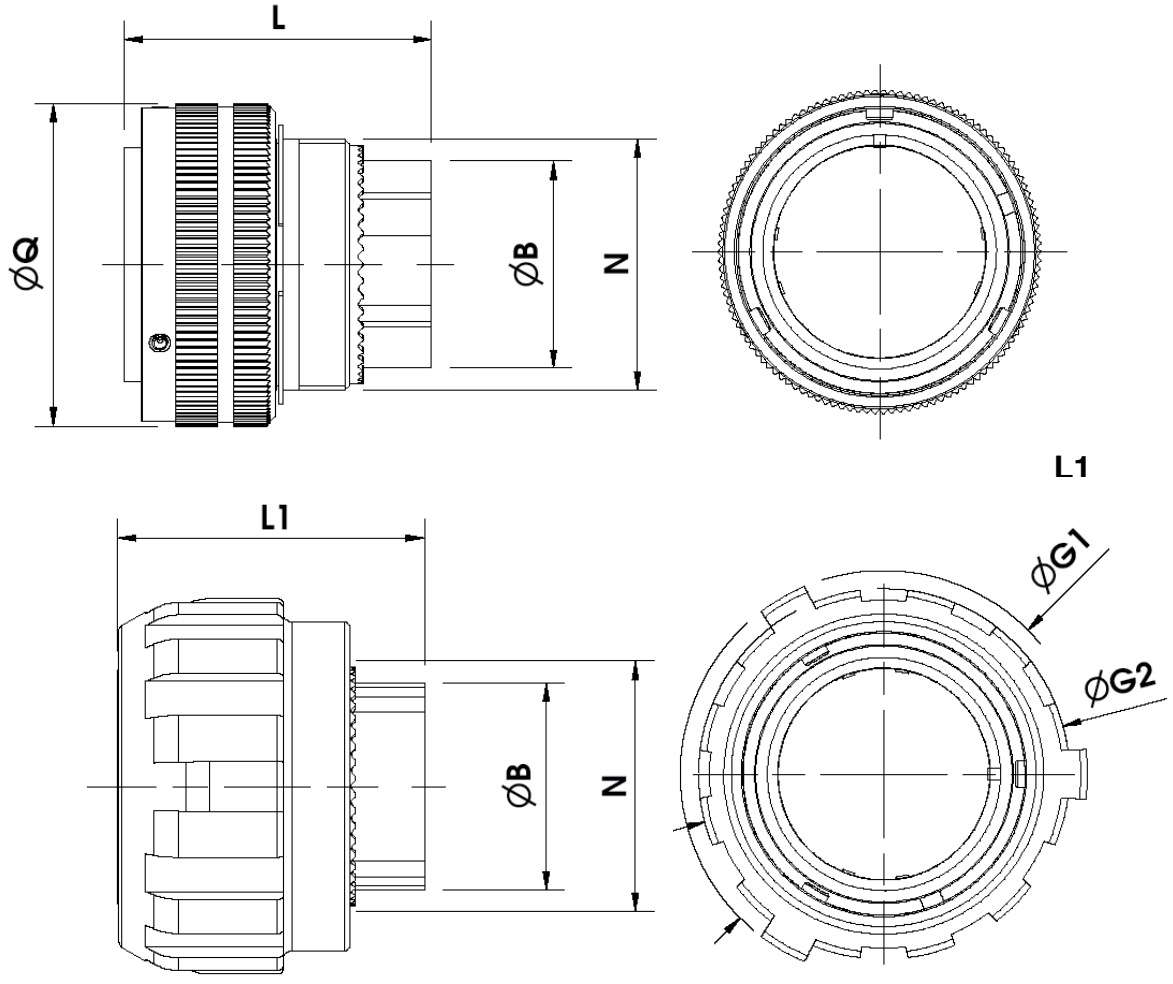


Shell Size	ØD +0 -0.15	M +0.4 -0	K ±0.2	L ±0.6	S ±0.3	R ±0.1	ØB ±0.15	N Thread	T	PT max
18	30.8	23.05	4	50	34.9	27	18.7	1" - 20 UNEF - 2A	M4	7.5
20	34.2	23.05	4	50	38.1	29.4	20.5	1"1/8 - 18 UNEF - 2A	M4	7.5
22	37.4	23.05	4	50	41	31.8	24.6	1"1/4 - 18 UNEF - 2A	M4	7.5
24	40.9	23.05	4	50	44.5	34.9	27.7	1"3/8 - 18 UNEF - 2A	M4	7.5
28	46.7	24.05	4	50	50.8	39.7	32.55	1"5/8 - 18 UNEF - 2A	M5	8.2
32	53.4	24.05	4	50	57	44.5	39.4	1"7/8 - 16 UN - 2A	M5	7.5
36	59.6	24.05	4	50	63.5	49.2	44.1	2"1/16 - 16 UN - 2A	M5	7.5
40	65.5	24.05	4	50	69.8	55.6	50	2"5/16 - 16 UN - 2A	M5	7.5

CONNECTOR SHELLS
06 - 96 - 08 - 98 Shell

Plug connector able to accept rear accessories.
It is available in the following versions for CVBS series:

- *06 with straight back shell*
- *96 provided with grounding finger to guarantee shielding - with straight back shell*
- *08 with 90° elbow*
- *98 provided with grounding finger to guarantee shielding - with 90° elbow*



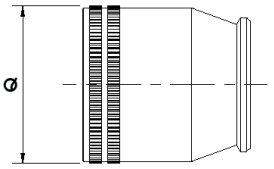
GG = rubber covered coupling nut

Shell size	ØQ Max	ØB ±0.15	L ±0.6	L1 ±0.6	N Thread	ØG1	ØG2
18	37	18.7	50	55	1" - 20 UNEF - 2A	49	43.5
20	41	20.5	50	55	1"1/8 - 18 UNEF - 2A	51.5	46
22	43	24.6	50	56	1"1/4 - 18 UNEF - 2A	56	50.5
24	48	27.7	50	56	1"3/8 - 18 UNEF - 2A	60	54
28	53	32.55	50	56	1"5/8 - 18 UNEF - 2A	67	61
32	60	39.4	50	56	1"7/8 - 16 UN - 2A	76	69
36	66.2	44.1	50	57	2"1/16 - 16 UN - 2A	82	73.5
40	72.2	50	50	57	2"5/16 - 16 UN - 2A	88	80

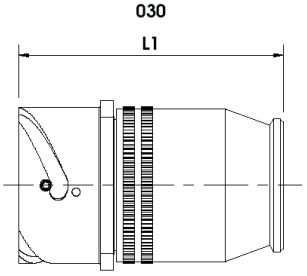
R class connectors

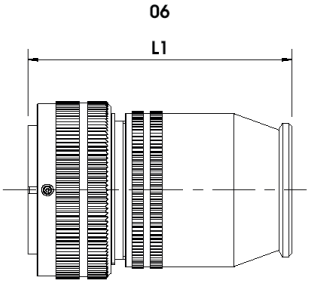
Supplied with:

- shorter backshell without thread for additional accessory
- grommet and compression ring



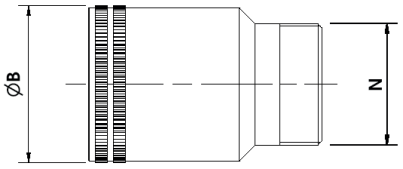
Shell size	ØQ Max	L1 Max 030	L1 Max 06/96
18	30	70	70
20	32	70	70
22	37	73	73
24	40	73	73
28	45	74	74
32	52	74	74
36	58	75	75
40	63.8	75	75

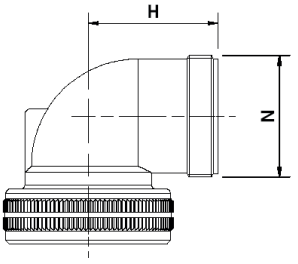




A / DA / RA Class connectors

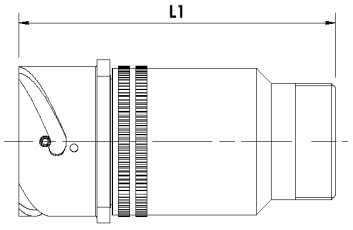
A: Backshell with external thread compatible with MS3057 A and C cable clamp
DA: As A but with backshell internal sealing gasket
RA: As DA but with grommet and compression ring



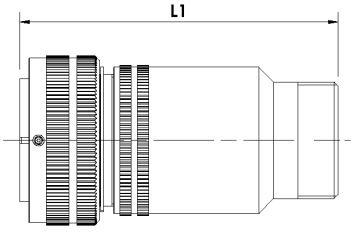


Shell size	ØB Max	H Max	N	L1 Max 030	L1 Max 06/96	L1 Max 06/96GG	L1 Max 08/98	L1 Max 08/98GG
18	30	31	1”-20 UNEF-2A	100	100	104	75	79
20	32	33	1”3/16-18 UNEF-2A	100	100	104	80	84
22	37	35	1”3/16-18 UNEF-2A	100	100	104	80	84
24	40	38	1”7/16-18 UNEF-2A	105	105	109	80	84
28	45	40	1”7/16-18 UNEF-2A	105	105	109	80	84
32	52	46	1”3/4-18 UNS-2A	115	115	119	85	89
36	58	49	2”-18 UNS-2A	125	125	129	90	94
40	63.8	53	2”1/4-16 UN-2A	125	125	129	95	99

030



06



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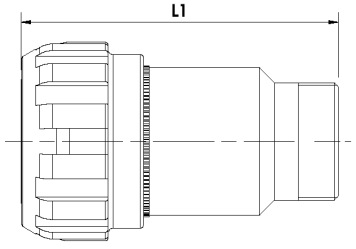

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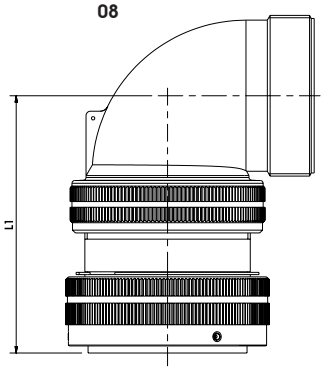
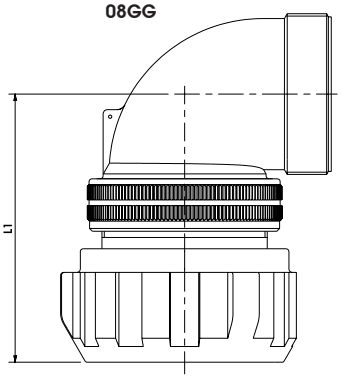
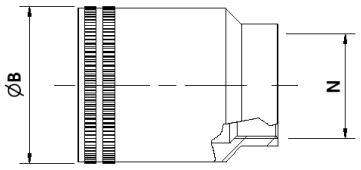


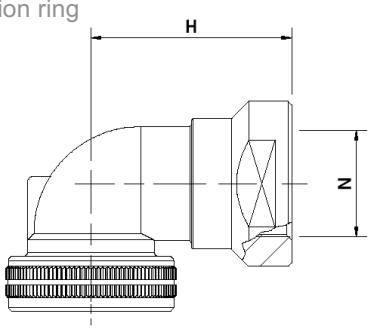
08GG



A…M / DA…M / RA…M class connectors

A … M	Backshell with internal metric backshell
DA …. M	As A..M but with backshell internal sealing gasket
RA …. M	As DA..M but with grommet and compression ring





shell size	P/N extension	ØB Max	H Max	N	L1 Max 030	L1 Max 06/96	L1 Max 06/96GG	L1 Max 08/98	L1 Max 08/98GG
18	M20	30	60	M20 X 1.5	100	100	104	75	79
20	M25	32	62	M25 X 1.5	100	100	104	80	84
22	M25	37	65	M25 X 1.5	100	100	104	80	84
24	M32	40	69	M32 X 1.5	105	105	109	80	84
28	M32	45	72	M32 X 1.5	105	105	109	80	84
32	M40	52	78	M40 X 1.5	115	115	119	85	89
36	M40	58	81	M40 X 1.5	125	125	129	90	94
40	M48	63.8	85	M48 X 1.5	125	125	129	95	99

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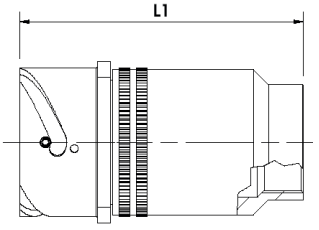

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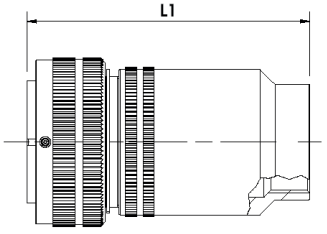

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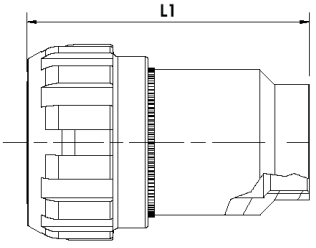

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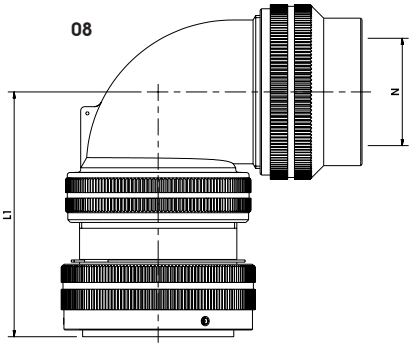
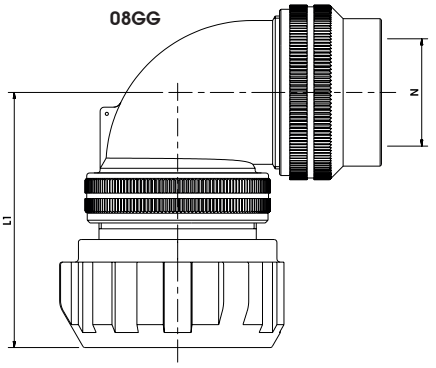


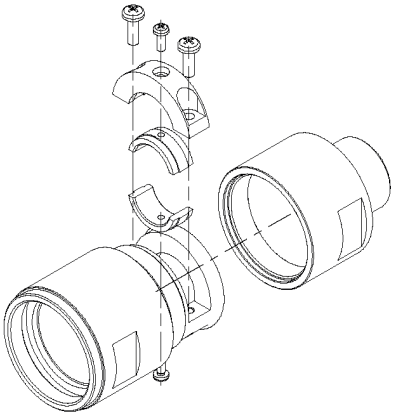
08GG

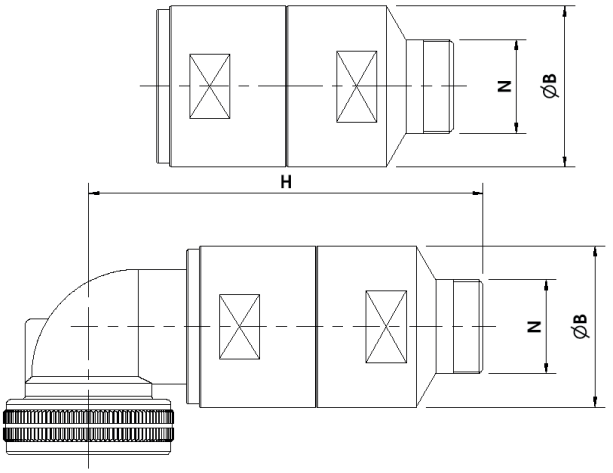


ST class connectors

Supplied with:

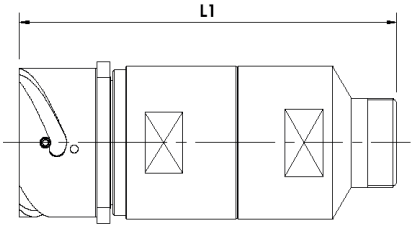
- individual wires strain relief
- sealing gaskets
- grommet and compression ring
  optionally can be supplied with internal metric thread adapters.



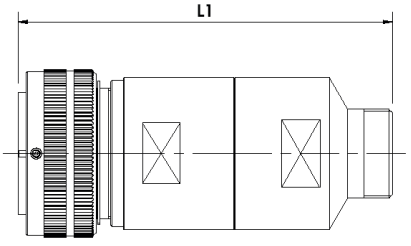


Shell size	ØB Max	H Max	N	L1 Max 030	L1 Max 06/96	L1 Max 06/96GG	L1 Max 08/98	L1 Max 08/98GG
18	30	102	1”-20 UNEF-2A	110	110	114	75	79
20	32	104	1”3/16-18 UNEF-2A	110	110	114	80	84
22	38	106	1”3/16-18 UNEF-2A	110	110	114	80	84
24	45	114	1”7/16-18 UNEF-2A	115	115	119	80	84
28	48	116	1”7/16-18 UNEF-2A	115	115	119	80	84
32	55	132	1”3/4-18 UNS-2A	125	125	129	85	89
36	58	145	2”-18 UNS-2A	135	135	139	90	94
40	65	149	2”1/4-16 UN-2A	135	135	139	95	99

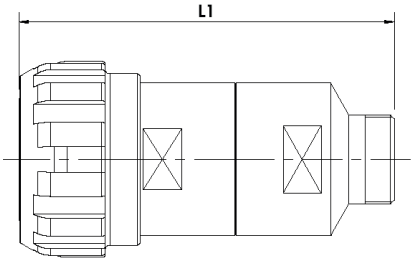
030



06



06GG



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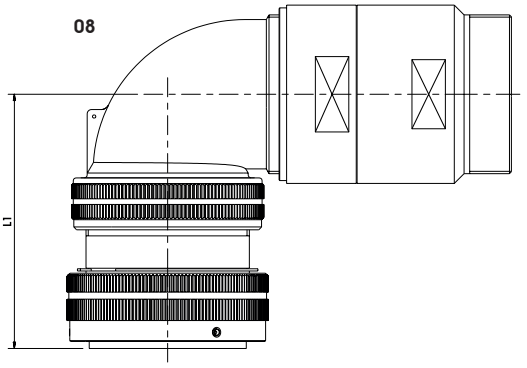

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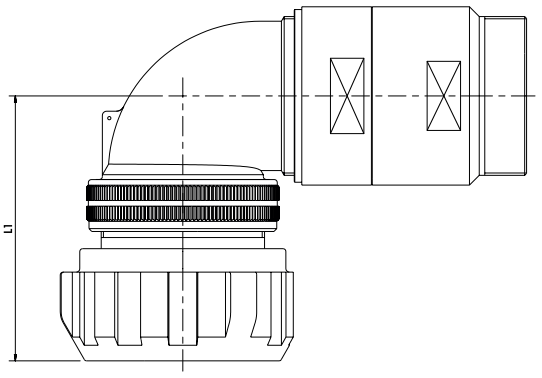
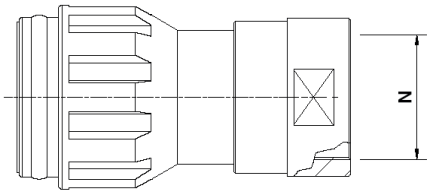
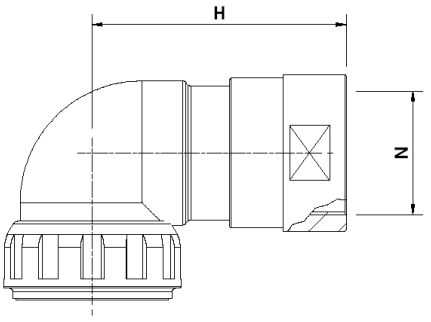


KVBSG Series DA…M / RA…M Classes

DA …. M Backshell with internal metric thread, including internal sealing gaskets
RA …. M as DA..M but including grommet and compression ring

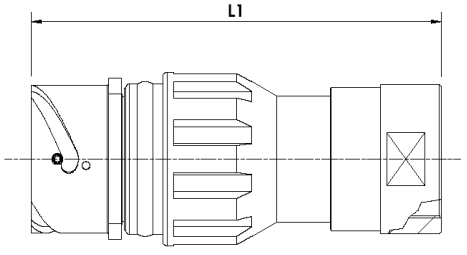
UNEF thread available on request.





Backshell size	P/N extension	H Max	N	L1 Max 030	L1 Max 06/96	L1 Max 08/98
18	M20	65	M20 X 1.5	103	107	86
20	M25	65	M25 X 1.5	120	124	90
22	M25	65	M25 X 1.5	120	124	90
24	M32	65	M32 X 1.5	139	143	91
28	M32	65	M32 X 1.5	140	144	91
32	M40	65	M40 X 1.5	143	147	96
36	M40	70	M40 X 1.5	151	155	101
40	M48	75	M48 X 1.5	154	159	105

030



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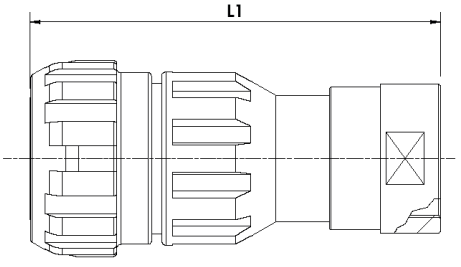
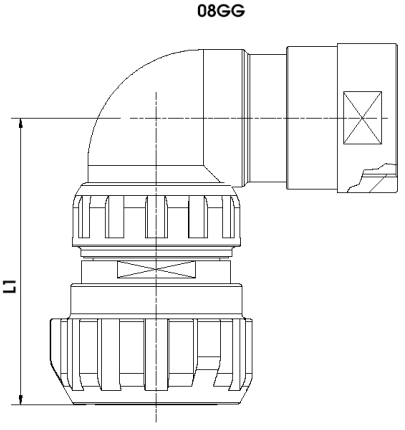
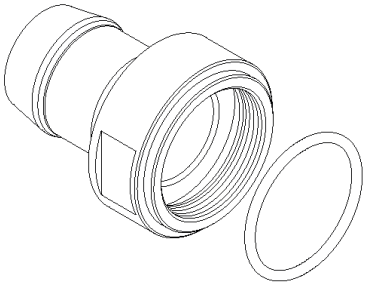


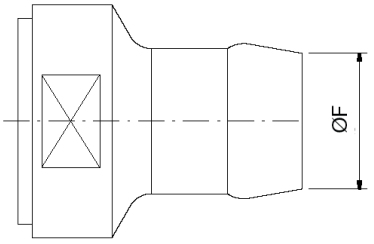
08GG



Adapter for UNI 4883 rubber tube conduit

Can be supplied in aluminium alloy (KVBS series) or insulating material (roe KVBSG series)





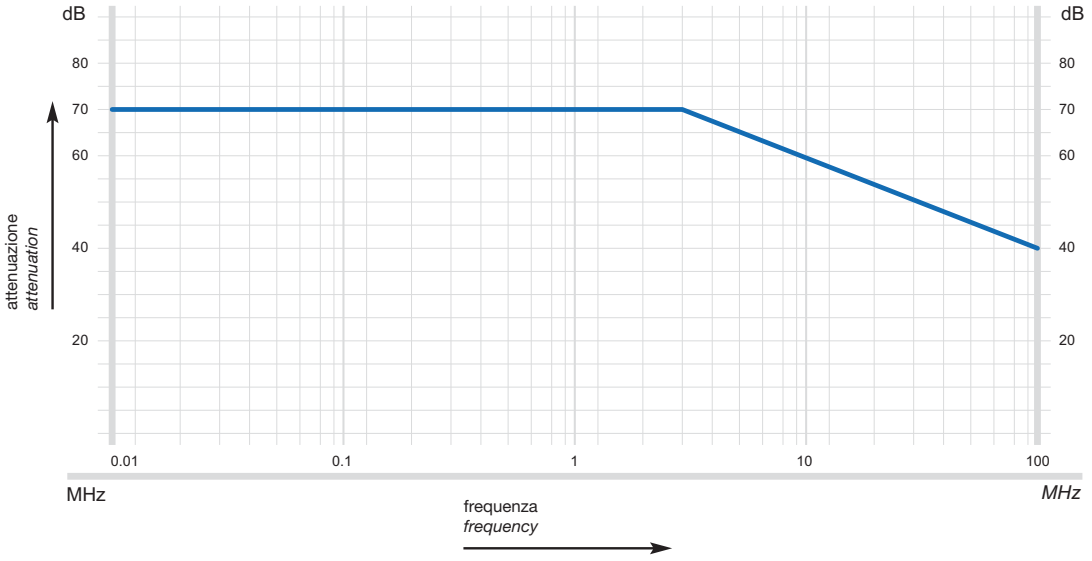
KVBS (*) P/N	KVBSG P/	Shell size	N	Ø internale diameterrubber conduit	Ø External diameter rubber conduit
PR1245 10 2722 F…	PR1246 10 2722	18	1”-20 UNEF-2A	22	27
PR1245 12 1712 F…	PR1246 12 1712	20-22	1”3/16-18 UNEF-2A	12	17
PR1245 12 2722 F…	PR1246 12 2722	20-22	1”3/16-18 UNEF-2A	22	27
PR1245 12 3328 F…	PR1246 12 3328	20-22	1”3/16-18 UNEF-2A	28	33
PR1245 16 2520 F…	PR1246 16 2520	24-28	1”7/16-18 UNEF-2A	20	25
PR1245 16 2722 F…	PR1246 16 2722	24-28	1”7/16-18 UNEF-2A	22	27
PR1245 16 3126 F…	PR1246 16 3126	24-28	1”7/16-18 UNEF-2A	26	31
PR1245 16 3328 F…	PR1246 16 3328	24-28	1”7/16-18 UNEF-2A	28	33
PR1245 16 3530 F…	PR1246 16 3530	24-28	1”7/16-18 UNEF-2A	30	35
PR1245 16 3833 F…	PR1246 16 3833	24-28	1”7/16-18 UNEF-2A	33	38
PR1245 16 5045 F…	PR1246 16 5045	24-28	1”7/16-18 UNEF-2A	45	50
PR1245 20 3126 F…	PR1246 20 3126	24-28	1”3/4-18 UNS-2A	26	31
PR1245 20 3328 F…	PR1246 20 3328	32	1”3/4-18 UNS-2A	28	33
PR1245 20 3833 F…	PR1246 20 3833	32	1”3/4-18 UNS-2A	33	38
PR1245 20 4035 F…	PR1246 20 4035	32	1”3/4-18 UNS-2A	35	40
PR1245 20 5045 F…	PR1246 20 5045	32	1”3/4-18 UNS-2A	45	50
PR1245 24 3530 F…	PR1246 24 3530	36	2”-18 UNS-2A	30	35
PR1245 24 3833 F…	PR1246 24 3833	36	2”-18 UNS-2A	33	38
PR1245 24 4035 F…	PR1246 24 4035	36	2”-18 UNS-2A	35	40
PR1245 24 5045 F…	PR1246 24 5045	36	2”-18 UNS-2A	45	50
PR1245 28 4136 F…	PR1246 28 4136	40	2”1/4-16 UN-2A	36	41
PR1245 284540 F…	PR1246 284540	40	2”1/4-16 UN-2°	40	45
PR1245 28 5045 F…	PR1246 28 5045	40	2”1/4-16 UN-2°	45	50
PR1245 28 5550 F…	PR1246 28 5550	40	2”1/4-16 UN-2°	50	55

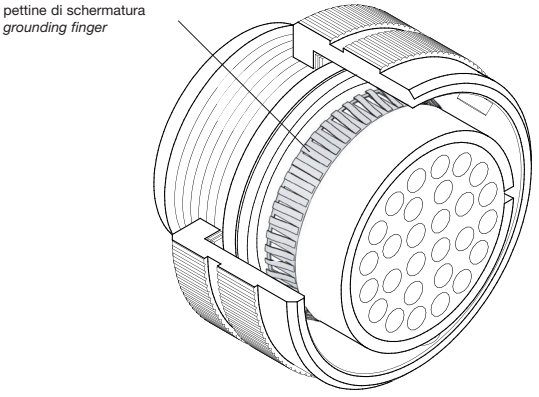
(*) add plating code:
F7 black varnish
F16 black passivated zinc cobalt

Shielding characteristics

When plug connectors with grounding finger (Fig. 1) type 96 - 98 - 96GG - 98GG - 965 are mated with receptacle connectors type 00 - 01 - 030 - 038 - 070 - 078 and both are provided with rear accessories for shielded cables, their shielding characteristics are according to VG95234 specs.

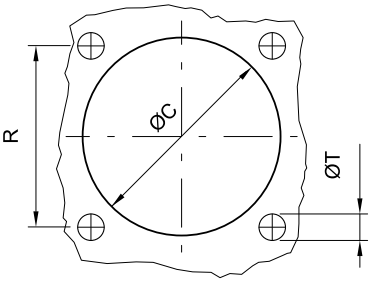
Shielding effectiveness data versus frequency





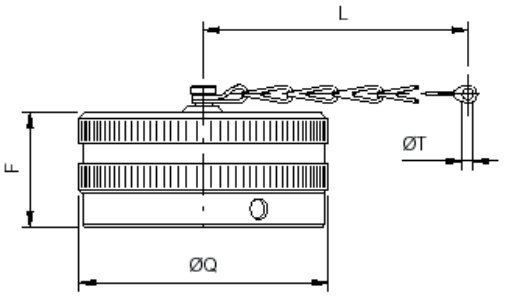
Receptacles mounting data

Shell size	Max panel thickness	R ±0.1	∅C ±0.2	∅T *through holes*	∅T *threaded holes*
18	7.5	27	31.7	3.4	4.5
20	7.5	29.4	35	3.4	4.5
22	7.5	31.8	38.3	3.4	4.5
24	7.5	34.9	41.8	3.9	4.5
28	8.2	39.7	47.6	3.9	5.5
32	7.5	44.5	54.3	4.5	5.5
36	7.5	49.2	60.5	4.5	5.5
40	7.5	55.6	66.4	4.5	5.5



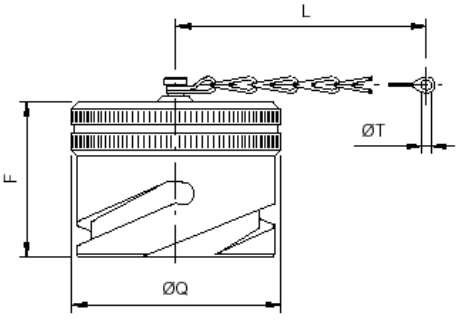
Receptacles chained caps

shell size	P/N	ØQ max.	F ±0.2	L min.	ØT ±0.2
18	CVB 043-18	38	21.7	123	4.3
20	CVB 043-20	40.5	21.7	123	4.3
22	CVB 043-22	44	21.7	123	4.3
24	CVB 043-24	47	21.7	123	4.3
28	CVB 043-28	53	21.7	206	4.3
32	CVB 043-32	60	21.7	206	4.3
36	CVB 043-36	66.2	21.7	206	4.3
40	CVB 043-40	72.4	21.7	206	4.3



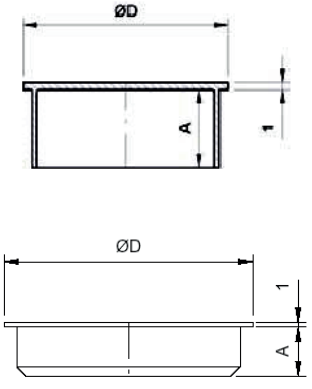
Plugs chained caps

Shell size	P/N	ØQ max.	F ±0.2	L min.	ØT ±0.2
18	CVB 042-18	33	34.5	123	4.3
20	CVB 042-20	36.5	34.5	138	4.3
22	CVB 042-22	39.7	34.5	138	4.3
24	CVB 042-24	43.2	34.5	138	4.3
28	CVB 042-28	48.9	34.5	206	4.3
32	CVB 042-32	55.5	34.5	206	4.3
36	CVB 042-36	61.6	34.5	206	4.3
40	CVB 042-40	67.6	34.5	206	4.3



Plastic protection caps

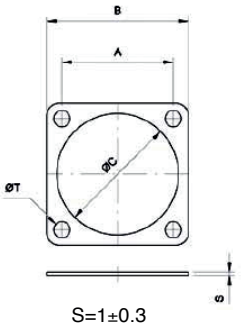
Shell size	Receptacles P/N	Plugs P/N	A Max.	ØD ±0.3
18	412105	412135	17.5	36.3
20	412106	412136	17.5	39.8
22	412107	412137	17.5	42.9
24	412108	412138	17.5	46.3
28	412109	412139	17.5	52.3
32	412110	412140	17.5	59
36	412111	412141	17.5	65.2
40	412112	412142	17.5	71.2



Receptacles sealing gaskets

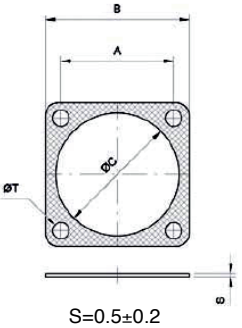
P/N Non conductive	P/N Conductive	Shell Size	A ±0.2	B -0 +0.4	ØC ±0.3	T ±0.3
C216-18	C216R-18	18	27	35	28.6	5.1
C216-20	C216R-20	20	29.4	38.1	31.8	5.1
C216-22	C216R-22	22	31.8	41.2	34.9	5.1
C216-24	C216R-24	24	34.9	44.5	38.1	5.1
C216-28	C216R-28	28	39.7	50.8	44.5	5.1
C216-32	C216R-32	32	44.5	57	50.8	5.5
C216-36	C216R-36	36	49.2	63.5	55.6	5.5
C216-40	C216R-40	40	55.5	69.9	61.9	5.5

C216



S=1±0.3

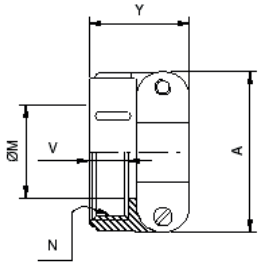
C216



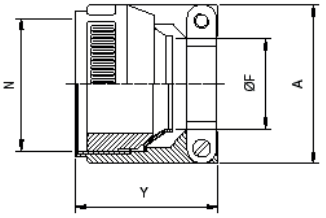
S=0.5±0.2

CVS 3057 Cable clamp

Type A not sealed



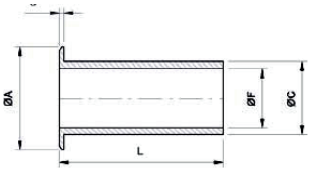
Type C sealed

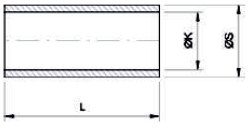


A Type P/N	Y Max.	V ±0.2	A Max.	ØM Min.	C Type P/N	ØF cavo Max	ØF cavo Min	Y Max.	A ±0.2	N	compatible with shell size
MS 3057-10A F7	25	10.5	33	15.8	RF CVS 3057-10C	15.9	9.6			1.000-20UNEF 2B	18
MS 3057-12A F7	25	10.5	35	19	RF CVS 3057-12C	19	11.3	35.7	37.3	1.1875-18UNEF 2B	20 - 22
MS 3057-16A F7	26	10.5	43	23.8	RF CVS 3057-16C	23.8	15.5	39	43.2	1.4375-18UNEF 2B	24 - 28
MS 3057-20A F7	28	12.5	51	31.7	RF CVS 3057-20C	31.8	23.4	44.8	54	1.750-18UNEF 2B	32
MS 3057-24A F7	29.4	14	58	35	RF CVS 3057-24C	35	25.4	52	57.8	2.000-18UNS 2B	36
MS 3057-28A F7	42.8	14	65	41.2	RF CVS 3057-28C	41.3	30	52.3	63.4	2.250-16UN 2B	40

RF CVS 3057-xxC F_
F7 Epoxy black varnish
F16 Black passivated zinc cobalt

Bushing





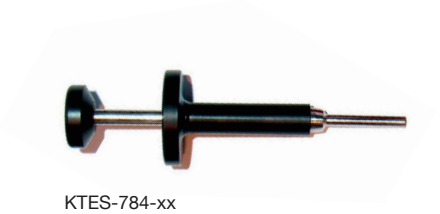
A type cable camp	ØA ±0.2	ØF (*)	ØC ±0.2	S ±0.2	L ±0.2	C Type cable clamp	ØS ±0.2	ØK ±0.2	L ±0.8	Compatible with cable camp size	compatible with shell size
RF CVS 3420-10	22	14.2	15.6	1.6	60.3	RF CVS 3420-10C	15.8	11.1	50.8	10	18
RF CVS 3420-12	27	15.8	18.8	1.6	57.1	RF CVS 3420-12C	18.9	13.7	50.8	12	20 - 22
RF CVS 3420-16	33.3	19	23.6	1.6	53.9	RF CVS 3420-16C	23.7	19	50.8	16	24 - 28
RF CVS 3420-20	40.5	23.8	31.5	1.6	50.8	RF CVS 3420-20C	31.6	23.8	50.8	20	32
RF CVS 3420-24	46.9	31.7	34.8	1.6	47.6	RF CVS 3420-24C	35	28.5	50.8	24	36
RF CVS 3420-28	52.9	34.9	41	1.6	44.4	RF CVS 3420-28C	41.1	31.8	50.8	28	40

Contacts crimp tools

contact size	Van-System P/N	cross section mm^2	cross section AWG	manual crimp tool	pneumatic crimp tool	locator	extracting tool
16	KT485 16-13P/S*	0.15÷0.6	26÷20	CRT-784/1	PCT784	LOC-784	KTES-784-16
16	KT485 16-12P/S	0.5÷0.75		CRT-784/1	PCT784	LOC-784	KTES-784-16
16	KT485 16-20P/S	1÷2	18÷14	CRT-784/1	PCT784	LOC-784	KTES-784-16
16	KT485 16-26P/S	2.5÷3		CRT-784/1	PCT784	LOC-784	KTES-784-16
12	KT485 12-12P/S	0.6	20	CRT-784/1	PCT784	LOC-784	KTES-784-12
12	KT485 12-20P/S	1÷2	18÷14	CRT-784/1	PCT784	LOC-784	KTES-784-12
12	KT485 12-26P/S*	2.5÷3		CRT-784/1	PCT784	LOC-784	KTES-784-12
12	KT485 12-30P/S	4	-	CRT-784/1	PCT784	LOC-784	KTES-784-12
12	KT485 12-38P/S	6	-	CRT-784/1	PCT784A	LOC-784	KTES-784-12
8	KT485 8-15P/S	1	-	CRT-784/1	PCT784/A	LOC-784	KTES-784-12
8	KT485 8-22P/S	2.5	-	CRT-784/1	-	**	**
8	KT485 8-30P/S*	4	-	CRT-784/1	-	**	KTES-784-8
8	KT485 8-38P/S	6	-	CRT-784/1	-	VS-61138-	KTES-784-8
8	KT485 8-50P/S*	10	-	HT-45+ME2	-	-	*

* on request

** consult our Sales Office



KTES-784-xx