

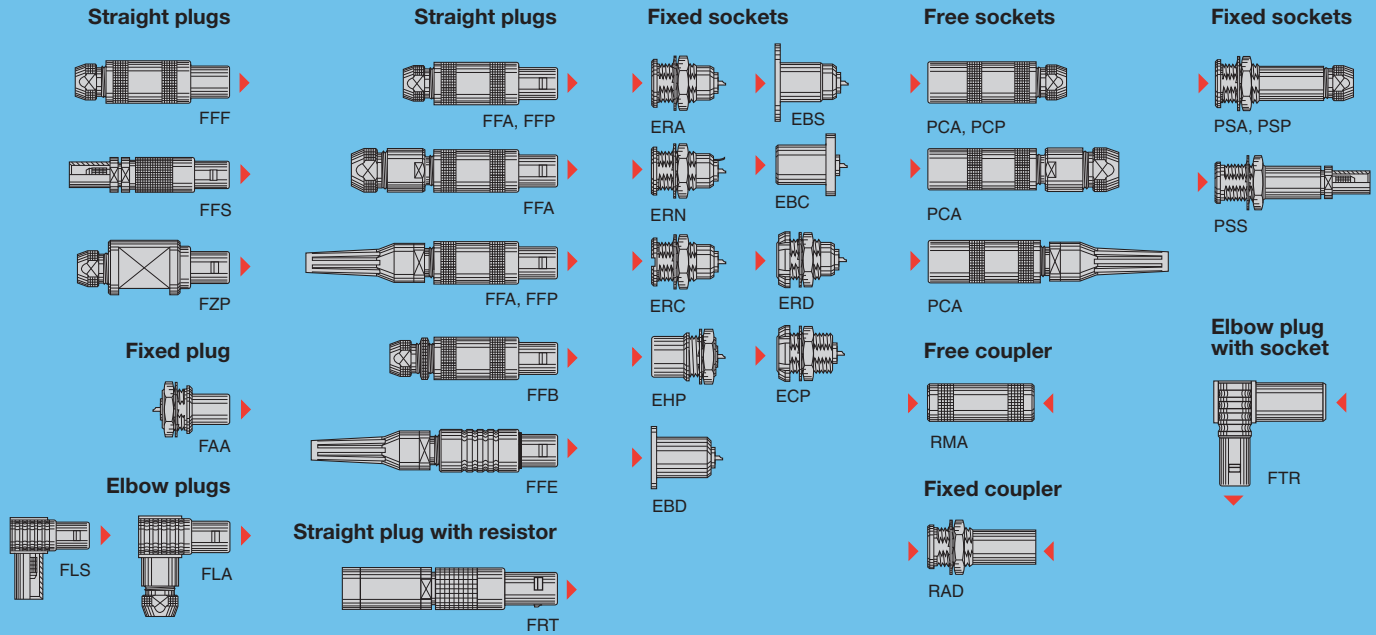
S Series

S series connectors have main features as follows:

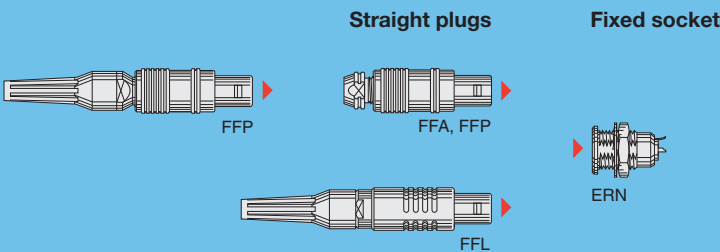
- security of the Push-Pull self-latching system
- solder contacts, print contacts only for coaxial and triaxial configurations
- 360° screening for full EMC shielding.

- coaxial, triaxial and mixed contact configurations
- polarisation by stepped insert (half-moon)
- up to 8 coaxial contacts

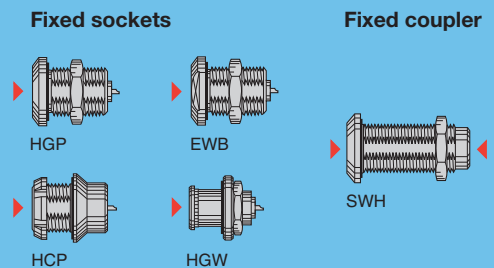
Metal housing models



Plastic housing models



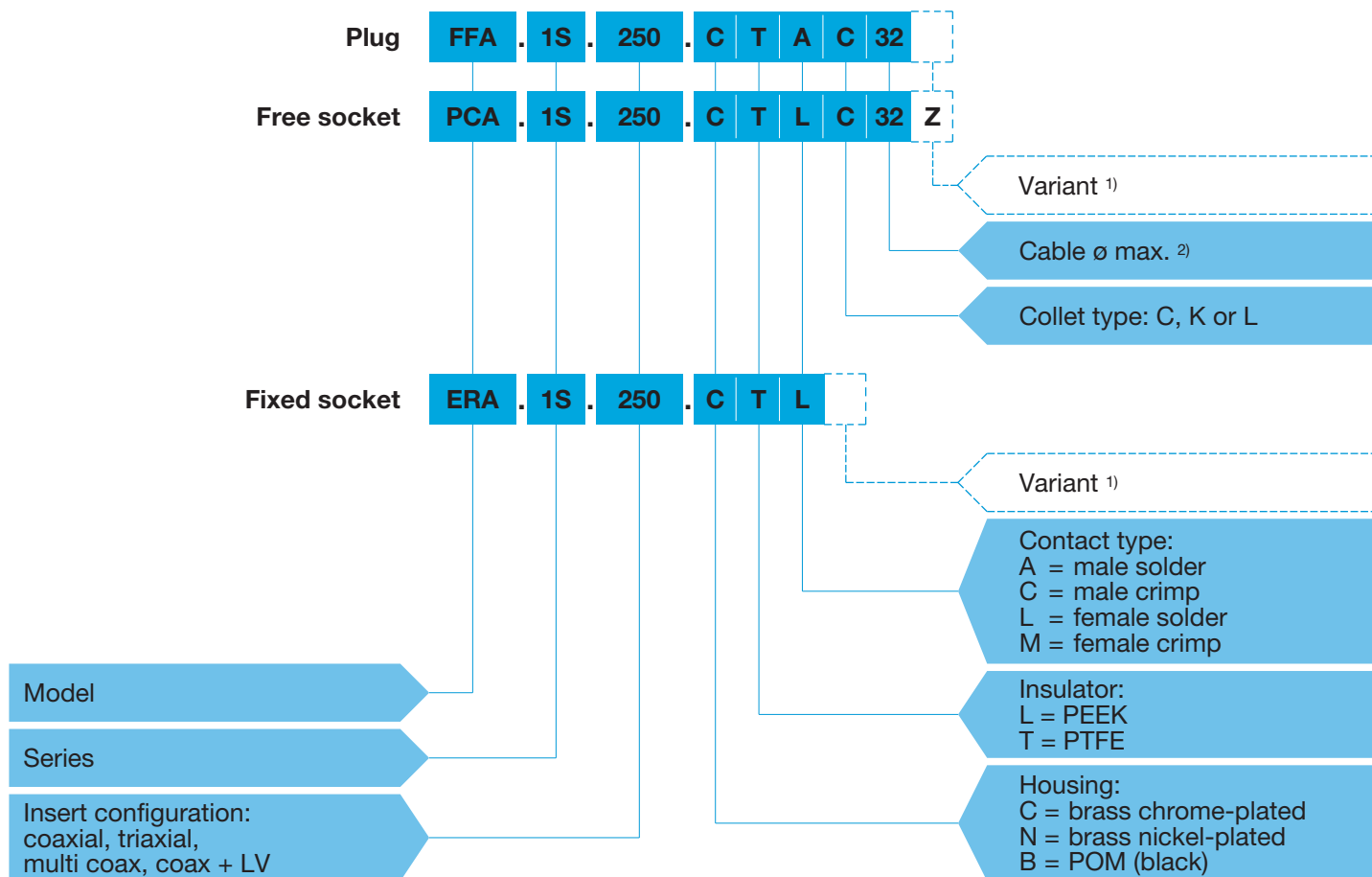
Watertight or vacuumtight models



Model Description

- | | | |
|--|---|--|
| EBC Fixed socket with square flange, protruding shell and screw fixing | FFA Straight plug, cable collet, PEEK or POM outer shell | HCP Fixed socket, nut fixing, watertight or vacuumtight (back panel mounting) |
| EBD Fixed socket with square flange and screw fixing | FFB Straight plug, cable collet and safety locking ring | HGP Fixed socket, nut fixing, watertight or vacuumtight |
| EBS Fixed socket with round flange and screw fixing | FFE Straight plug, cable collet, front seal and nut for fitting a bend relief (protected to IP54 when mated) | HGW Fixed socket, nut fixing, with back washer, watertight or vacuumtight |
| ECP Fixed socket with two nuts, long threaded shell (back panel mounting) | FFF Straight plug, non-latching, cable collet | PCA Free socket, cable collet |
| EHP Fixed socket, nut fixing, protruding shell | FFP Straight plug, cable collet and inner anti-rotating device | PCA Free socket with oversize cable collet |
| ERA Fixed socket, nut fixing | FFP Straight plug, cable collet, PEEK or POM outer shell | PCA Free socket, cable collet and nut for fitting a bend relief |
| ERC Fixed socket, nut fixing with slot in the flange | FFP Straight plug, cable collet, PEEK or POM outer shell and inner anti-rotating device | PCP Free socket, cable collet and inner anti-rotating device |
| ERD Fixed socket with two nuts (back panel mounting) | FFP Straight plug, cable collet, PEEK or POM outer shell, inner anti-rotating device and nut for fitting a bend relief | PSA Fixed socket, nut fixing, cable collet |
| ERN Fixed socket, nut fixing, with earthing tag | FFS Straight plug for cable crimping | PSP Fixed socket, nut fixing, cable collet and inner anti-rotating device |
| ERN Fixed socket, nut fixing, with earthing tag, PEEK or POM outer shell | FLA Elbow (90°) plug, cable collet | PSS Free socket, nut fixing for cable crimping |
| EWB Fixed socket, nut fixing, with two flats on the flange, watertight or vacuumtight | FLA Elbow (90°) plug, cable collet and nut for fitting a bend relief | RAD Fixed coupler, nut fixing |
| FAA Fixed plug non-latching, nut fixing | FLS Elbow (90°) plug for cable crimping | RMA Free coupler |
| FFA Straight plug, cable collet | FRT Straight plug with resistor | SWH Fixed coupler, nut fixing, watertight or vacuumtight |
| FFA Straight plug with oversize cable collet | FTR Elbow (90°) plug with socket | |
| FFA Straight plug, cable collet and nut for fitting a bend relief | FZP Straight plug for remote handling, cable collet and inner anti-rotating device | |

Part Numbering System



Part Number Example

Straight plug with cable collet:

FFA.1S.250.CTAC32 = straight plug with cable collet, 1S series, coaxial (50 Ω), outer shell in chrome-plated brass, PTFE insulator, male solder contact, C type collet for a 3.2 mm diameter cable.

Free socket:

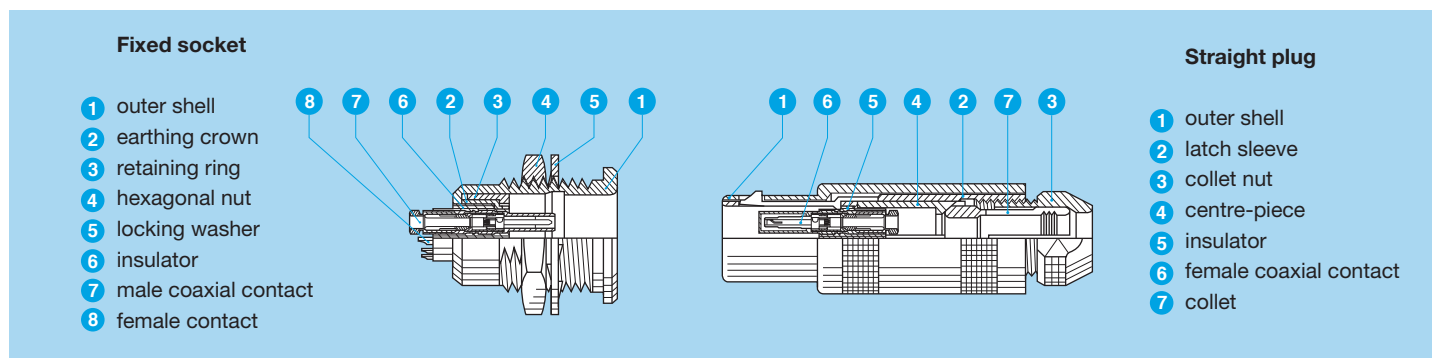
PCA.1S.250.CTLC32Z = free socket with cable collet, 1S series, coaxial (50 Ω), outer shell in chrome-plated brass, PTFE insulator, female solder contact, C type collet for a 3.2 mm diameter cable and nut for fitting a bend relief.

Fixed socket:

ERA.1S.250.CTL = fixed socket, nut fixing, 1S series, coaxial (50 Ω), outer shell in chrome-plated brass, PTFE insulator, female solder contact.

Note: ¹⁾ for mixed contacts, add cable group to the part number.
²⁾ see unipole-multipole catalogue (p. 102).

Part Section Showing Internal Components (mixed coax + LV)



E Series

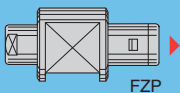
E series connectors have been specifically designed for outdoor applications.

They include an inner sleeve and two seals to prevent penetration of solids or liquids into the housing formed by the plug, free socket or fixed socket. All models of these series are watertight when mated and give a protection index of IP 68 as per IEC 60529 standard (in mated condition) when correctly assembled to an appropriate cable (IP 66 otherwise).

- security of the Push-Pull latching system
- watertight connection (IP 68/IP 66)
- solder contacts, print contacts only for coaxial and triaxial configurations
- coaxial, triaxial and mixed contact configurations
- polarization by stepped insert (half-moon)
- 360° screening for full EMC shielding
- rugged housing for extreme working condition.

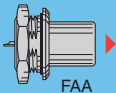
Models

Straight plug



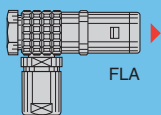
FZP

Fixed plug



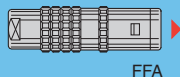
FAA

Elbow plug

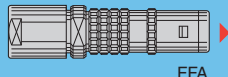


FLA

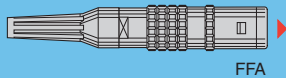
Straight plugs



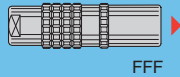
FFA



FFA

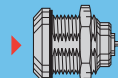


FFA

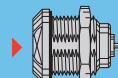


FFF

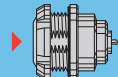
Fixed sockets



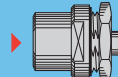
ERA



ERB

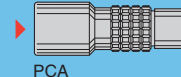


EEP

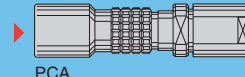


EHP

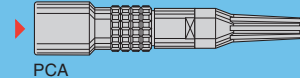
Free sockets



PCA

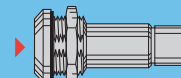


PCA



PCA

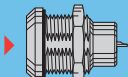
Fixed socket



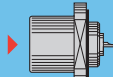
PSA

Watertight or vacuumtight models

Fixed sockets

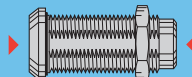


HGP



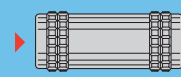
EBR

Fixed coupler



SWH

Free coupler

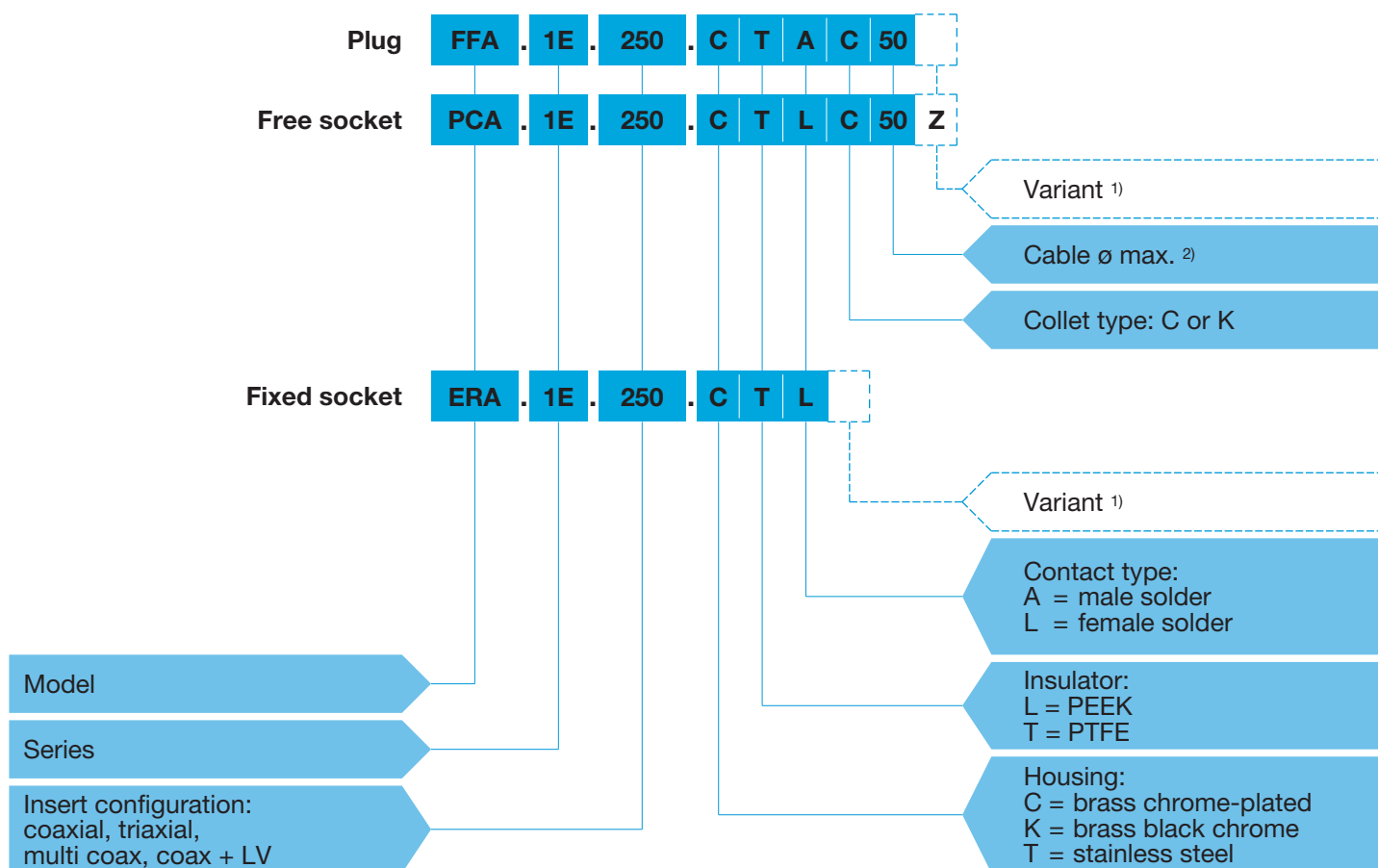


RMA

Model Description

- | | | |
|--|---|---|
| <p>EBR Fixed socket with round flange, watertight, protruding shell and screw fixing</p> <p>EEP Fixed socket, nut fixing (back panel mounting)</p> <p>EHP Fixed socket, nut fixing, protruding shell</p> <p>ERA Fixed socket, nut fixing</p> <p>ERB Fixed socket, nut fixing with two flats in the flange</p> <p>FAA Fixed plug non-latching, nut fixing</p> <p>FFA Straight plug, cable collet</p> | <p>FFA Straight plug with oversize cable collet</p> <p>FFA Straight plug, cable collet and nut for fitting a bend relief</p> <p>FFF Straight plug non-latching, cable collet</p> <p>FLA Elbow (90°) plug, cable collet</p> <p>FZP Straight plug for remote handling, cable collet and inner anti-rotating device</p> <p>HGP Fixed socket, nut fixing, watertight or vacuumtight</p> <p>PCA Free socket, cable collet</p> | <p>PCA Free socket with oversize cable collet</p> <p>PCA Free socket, cable collet and nut for fitting a bend relief</p> <p>PSA Fixed socket, nut fixing, cable collet</p> <p>RMA Free coupler</p> <p>SWH Fixed coupler, nut fixing, watertight or vacuumtight</p> |
|--|---|---|

Part Numbering System



Part Number Example

Straight plug with cable collet:

FFA.1E.250.CTAC50 = straight plug with cable collet, 1E series, coaxial (50 Ω), outer shell in chrome-plated brass, PTFE insulator, C type collet for an up to 5.0 mm diameter cable.

Free socket:

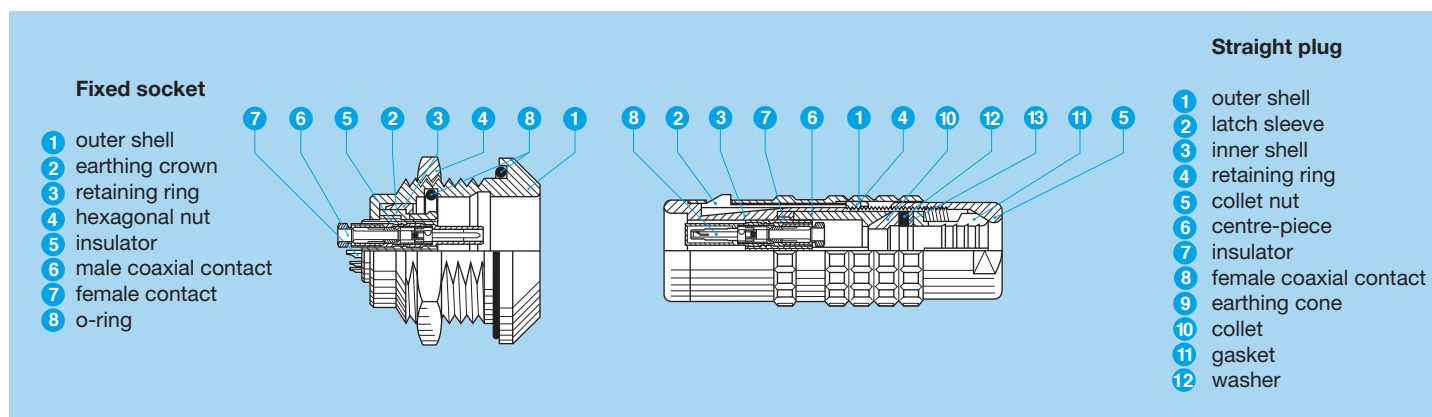
PCA.1E.250.CTLC50Z = free socket with cable collet, 1E series, coaxial (50 Ω), outer shell in chrome-plated brass, PTFE insulator, C type collet for an up to 5.0 mm diameter cable and collet nut for fitting a bend relief.

Fixed socket:

ERA.1E.250.CTL = fixed socket, nut fixing, 1E series, coaxial (50 Ω), outer shell in chrome-plated brass, PTFE insulator.

Note: ¹⁾ for mixed contacts, add cable group to the part number.
²⁾ see unipole-multipole catalogue (p. 105).

Part Section Showing Internal Components (mixed coax + LV)



Insert configuration (S and E series)

Coaxial

		Reference	Series		Impedance (Ω)	ϕA (mm)	Cable group	Cond. ϕ max	Dielectric ϕ maxi	Sheath ϕ		VSWR (f=GHz)	Test voltage (kV rms)	Rated current (A)
			Standard	Watertight						Maxi S series	Maxi E series			
00		250 ¹⁾	00	-	50	0.7	1 to 9	1.05	3.05	5.5		1.09 +0.11f	2.1	4
0S 0E		250	0S	0E	50	0.9	1-2 3-4	0.95	2.95	6.7	5.0	1.02 +0.25f	3.0	6
1S 1E		250	1S	1E	50	1.6	1-2 3-4	1.35	3.95	8.5	8.5	1.01 +0.23f	3.0	12
		275	1S	1E	75	1.3	5-6-7	1.05	3.95	8.5	8.5	1.02 +0.08f	2.4	10
2S 2E		250	2S	2E	50	2.0	6-7	1.75	5.95	10.5	10.5	1.01 +0.95f	3.0	15
		275	2S	2E	75	1.6	6-7	1.35	5.95	10.5	10.5	1.02 +0.03f	1.5	12
3S 3E		250	3S	3E	50	3.0	8	2.65	8.15	13.0	15.0	1.06 +0.5f	3.0	26
		275	3S	3E	75	2.0	8	1.75	8.15	13.0	15.0	1.04 +0.05f	2.7	15
4S 4E		250	4S	4E	50	4.0	8-9	3.65	10.05	22.0	23.5	1.01 +1.9f	2.1	36
		275	4S	4E	75	3.0	8-9-0	2.65	10.05	22.0	23.5	1.01 +0.12f	1.8	26
5S		250	5S	-	50	5.0	9	5.15	17.45	30.0	30.0	1.02 +2.3f	3.0	45

Note: ¹⁾ see NIM-CAMAC catalogue.

Triaxial

			Reference	Series		Impedance (Ω)	ϕ A (mm)	Cable group	Cond. ϕ max	Dielectric ϕ maxi	Sheath ϕ		VSWR (f=GHz)	Test voltage (kV rms) (contact/screen)	Rated current (A)
				Standard	Watertight						Maxi S series	Maxi E series			
0S 0E			650	0S	0E	50	0.9	1-2	0.75	2.95	6.7	5.0	1.03 +0.34f	1.0	6
			675	0S	0E	75	0.9	4-6	0.75	5.95	10.5	10.5	1.01 +0.07f	1.5	6
1S 1E			650	1S	1E	50	0.9	1-2-3	0.75	3.95	8.5	8.5	1.01 +0.17f	1.0	6
			675	1S	1E	75	0.9	4-5	0.75	8.45	13.0	15.0	1.02 +0.05f	1.8	6
2S 2E			650	2S	2E	50	1.6	2-3-4	1.35	5.95	10.5	10.5	1.01 +0.3f	1.5	12
			675	2S	2E	75	0.9	4-5	0.75	8.45	13.0	15.0	1.01 +0.27f	2.4	15
3S 3E			650	3S	3E	50	2.0	3-4-5	1.75	8.45	13.0	15.0	1.01 +0.27f	2.4	15
			675	3S	3E	75	0.9	4-5	0.75	8.45	13.0	15.0	1.02 +0.05f	1.8	6
4S 4E			650	4S	4E	50	3.0	4-5	2.65	10.05	22.0	23.5	1.01 +0.38f	2.7	26
			675	4S	4E	75	2.0	4-5-7	2.25	10.05	22.0	23.5	1.01 +0.14f	2.2	15

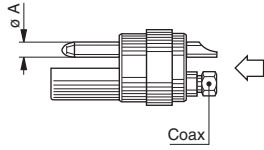
Mixed: coax + LV, multi coax

		Reference	Series		Coaxial				Low Voltage					
			Standard	Watertight	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ϕ A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
		801	3S	3E	1	50	5	A1	1-2-3	1	1.3	2.7	3.9	14
		802	3S	3E	1	50	5	A1	1-2-3	2	1.3	1.2	1.8	14
		803	3S	3E	1	50	5	A1	1-2-3	3	1.3	2.7	3.9	14
		804	3S	3E	1	50	5	A1	1-2-3	4	1.3	1.2	1.8	10
		805	3S	3E	1	50	5	A1	1-2-3	5	0.9	1.8	2.4	8
		806	3S	3E	1	50	5	A1	1-2-3	6	0.9	0.8	1.2	8
		807	3S	3E	1	50	5	A1	1-2-3	7	0.9	0.8	1.2	7
		802	4S	4E	1	50	5	A1	1-2-3	2	3.0	2.1	3.0	21
		803	4S	4E	1	50	5	A1	1-2-3	3	2.0	2.1	3.0	16
		804	4S	4E	1	50	5	A1	1-2-3	4	1.3	2.7	3.9	13
		805	4S	4E	1	50	5	A1	1-2-3	5	1.3	2.1	3.0	11
		806	4S	4E	1	50	5	A1	1-2-3	6	1.3	2.1	3.0	9
		807	4S	4E	1	50	5	A1	1-2-3	7	1.3	2.1	3.0	8
		809	4S	4E	1	50	5	A1	1-2-3	9	0.9	2.1	3.0	7
		810	4S	4E	1	50	5	A1	1-2-3	10	0.9	2.1	3.0	7
		812	4S	4E	1	50	5	A1	1-2-3	12	0.9	2.1	3.0	7
		202	4S	4E	2	50	5	A1	1-2-3	-	-	-	-	-
		832	4S	4E	2	50	5	A1	1-2-3	2	1.3	2.1	3.0	13

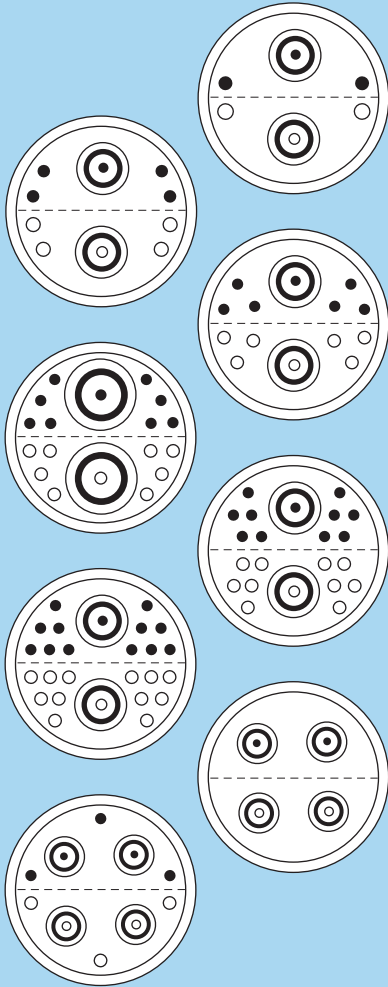
Mixed: coax + LV, multi coax

		Series		Coaxial					Low Voltage						
				Standard	Watertight	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ϕ A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
		Reference													
		4S 4E	834	4S	4E	2	50	5	A1	1-2-3	4	1.3	2.1	3.0	13
			836	4S	4E	2	50	5	A1	1-2-3	6	0.9	1.8	2.4	7
			838	4S	4E	2	50	5	A1	1-2-3	8	0.9	1.8	2.4	7
	842	4S	4E	2	50	5	A1	1-2-3	12	0.9	1.8	2.4	7		
5S 5E	803	-	5E	1	50	12	A	4-6	3	3.0	3.0	4.2	25		
	804	5S	-	1	50	6	A0	1-3-4	4	3.0	2.1	3.0	22		
	804	-	5E	1	75	7	A	3-4-5	4	3.0	2.1	3.0	22		
	810	5S	5E	1	50	5	A1	1-2-3	10	1.6	1.8	2.4	11		
	232	5S	-	2	50	6	A0	1-3-4	-	-	-	-	-		
	282 292	5S	5E	2	50 75	12 7	A	4-6 3-4-5	-	-	-	-	-		
	832	5S	5E	2	50	6	A0	1-3-4	2	2.0	2.1	3.0	18		

Mixed: coax + LV, multi coax

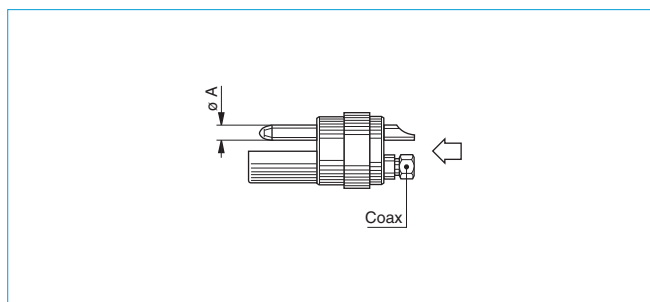


5S
5E

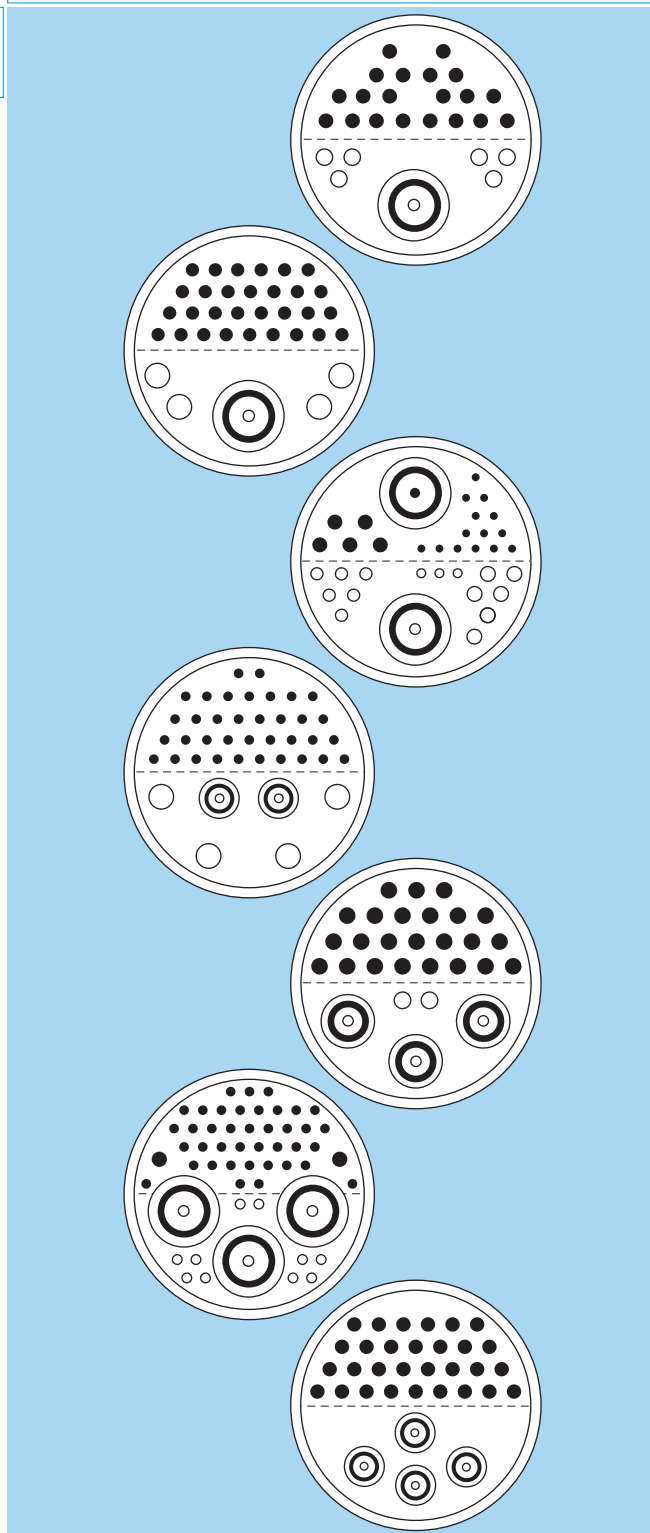


Reference	Series		Coaxial					Low Voltage				
	Standard	Watertight	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	$\varnothing A$ (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
834	5S	5E	2	50	6	A0	1-3-4	4	2.0	2.1	3.0	18
838	5S	-	2	50	6	A0	1-3-4	8	1.6	1.8	2.4	12
842	5S	5E	2	50	6	A0	1-3-4	12	1.3	1.8	2.4	9
846	-	5E	2	75	7	A	3-4-5	16	1.3	0.8	1.2	8
850	5S	-	2	50	6	A0	1-3-4	20	1.3	0.8	1.2	7
854	5S	-	2	50	6	A0	1-3-4	24	1.3	0.8	1.2	6
234	5S	5E	4	50	5	A1	1-2-3	-	-	-	-	-
876	5S	5E	4	50	5	A1	1-2-3	6	1.3	0.8	1.2	6

Mixed: coax + LV, multi coax



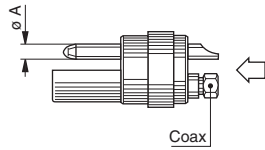
6S



Reference	Coaxial					Low Voltage				
	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ø A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
826	1	75	7	A	3-4-5	26	2.0	1.5	2.1	7
830	1	75	7	A	3-4-5	4 30	3.0 1.6	1.5 1.5	2.1 2.1	14 5
858	2	75	7	A	3-4-5	6 6 5 17	1.3 1.6 2.0 0.9	1.2 1.2 1.2 1.2	1.8 1.8 1.8 1.8	4 5 10 2
859	2	50	5	A1	1-2-3	36 4	1.3 3.0	1.2 1.2	1.8 1.8	4 14
866	3	50	6	A0	1-3-4	26	2.0	1.5	2.1	7
867	3	75	7	A	3-4-5	49 2	0.9 1.6	1.2 1.2	1.8 1.8	2 5
883	4	50	4	A1	1-2-3	30	1.6	1.5	2.1	5

Mixed: coax + LV, multi coax

6S



Reference	Coaxial					Low Voltage				
	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ø A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
284 294	4	50 75	12 7	A	4-6 3-4-5	-	-	-	-	-
882	4	75	7	A	3-4-5	26	0.9	0.8	1.2	2
887	1 4	50 50	26 5	A3 A1	7 3 } 9	7	2.0	1.5	2.1	10
890	6	50	5	A1	1-2-3	4	4.0	1.5	2.1	16
893	6	50	5	A1	1-2-3	20	1.6	1.5	2.1	5
238	8	50	6	A0	1-3-4	-	-	-	-	-
899	8	50	5	A1	1-2-3	20	1.6	1.5	2.1	5

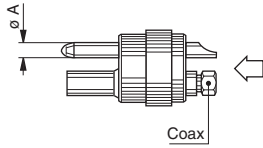
Mixed: coax + LV, multi coax

Reference	Coaxial					Low Voltage				
	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ϕ A (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
805 ¹⁾	1	75	7	A	3-4-5	5	2.0	1.5	2.1	10
831	1	75	7	A	3-4-5	24 12	0.9 2.0	0.8 1.5	1.2 2.1	2 10
843	2	75	7	A	3-4-5	12 1	2.0 3.0	1.5 1.5	2.1 2.1	10 14
847	2	50	5	A1	1-2-3	17	2.0	1.5	2.1	10
856	2	75	7	A	3-4-5	26	2.0	1.5	2.1	7
857	2	75	7	A	3-4-5	33	1.3	1.2	1.8	4
865	3	75	7	A	3-4-5	21 4	1.3 2.0	1.2 1.2	1.8 1.8	4 10

Note:¹⁾ The type 6E.805 is delivered with female contacts in the plug.

Mixed: coax + LV, multi coax

6E



Reference	Coaxial					Low Voltage				
	Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ϕA (mm)	Test voltage (kV rms)	Test voltage (kV dc)	Rated current (A)
866	3	75	7	A	3-4-5	26	1.3	1.2	1.8	4
880	4	50	5	A1	1-2-3	20	1.3	1.2	1.8	4
882	4	75	7	A	3-4-5	20	0.9	0.8	1.2	2
884	4	75	7	A	3-4-5	38	0.9	0.8	1.2	2
235	5	50	6	A0	1-3-4	-	-	-	-	-
899	8	50	5	A1	1-2-3	20	1.6	1.5	2.1	5

Mixed: coax + LV + HV

		Reference	Coax					Low voltage (LV)		High voltage (HV)	
			Number of contacts	Impedance (Ω)	Rated current (A)	Type (see page 27)	Cable group	Number of contacts	ϕA (mm)	Number of contacts	ϕA (mm)
4S 4E		934	1	50	5	A1	1-2-3	4	0.9	1	2.0

Coaxial contacts for S and E series

Type	Impedance (Ω)	ϕA (mm)	Cond. fixing	Screen fixing	Cable group	Cond. ϕ maxi	Dielectric ϕ maxi	Sheath ϕ		VSWR (f=GHz)	Test voltage (kV rms)	Rated current (A)
								Mini	Maxi			
A1	50	0.7	solder	collet	1	0.55	1.90	2.5	3.0	1.01 +0.127f	0.9	5
					2	0.55	1.90	1.7	2.1			
					3	0.55	1.90	2.2	2.6			
A0	50	0.9	solder	collet	2	0.95	2.95	1.7	2.1	1.06 +0.1f	3.0	6
					3	0.95	2.95	2.7	3.1			
					4	0.95	2.95	3.3	4.1			
A	50	1.6	solder	collet	4	1.35	3.95	3.3	4.1	1.01 +0.146f	1.8	12
					6	1.35	3.95	4.3	5.1			
					3	1.05	3.95	2.2	2.6			
A3	50	3.0	solder	collet	4	1.05	3.95	3.3	4.1	1.01 +0.19f	2.4	7
					5	1.05	3.95	5.3	6.1			
					7	2.60	8.10	10.0	10.6			

Recommended coaxial cables for 00 Series

	LEMO cable Part Number	Type	LEMO cable group	Impedance (Ω)	Conductor \varnothing (mm)	Dielectric \varnothing (mm)	Screen \varnothing (mm)	Sheath \varnothing (mm)
Standard	CCX.50.RG5.8CU50N	RG 58 C/U	6	50 ± 2	0.90	2.95	3.60	5.00
	CCX.50.RG1.42BU50M	RG 142 B/U	7	50 ± 2	0.95	2.95	3.53 / 4.30	5.00
	CCX.50.RG1.74U25N	RG 174 /U	3	50 ± 2	0.48	1.50	2.00	2.55
	CCX.50.RG1.74AU27N	RG 174 A/U	3	50 ± 2	0.48	1.50	2.00	2.80
	CCX.50.RG1.78BU18M	RG 178 B/U	1	50 ± 2	0.30	0.84	1.30	1.80
	CCX.75.RG1.79BU26M	RG 179 B/U	2	75 ± 3	0.30	1.50	2.00	2.50
	CCX.75.RG1.87AU26B	RG 187 A/U	2	75 ± 3	0.30	1.50	2.00	2.60
	CCX.50.RG1.88AU24B	RG 188 A/U	4	50 ± 2	0.54	1.50	2.00	2.60
	CCX.95.RG1.95AU37B	RG 195 A/U	5	95 ± 5	0.30	2.52	3.10	3.70
	CCX.50.RG1.96AU20B	RG 196 A/U	1	50 ± 2	0.30	0.84	1.30	1.95
	CCX.50.RG3.16U26M	RG 316 /U	4	50 ± 2	0.54	1.50	2.10	2.60
Non standard		Huber+Suhner, G02232D-60	8	50 ± 2	0.50	1.50	1.95 / 2.40	3.10
		Huber+Suhner, K01152-07	9	50 ± 5	0.19	0.52	0.90	1.25
		Storm, 421-099	8	50 ± 2	0.50	1.52	2.00 / 2.50	3.05

Note: for more details on cable properties, see NIM-CAMAC catalogue.

Recommended triaxial cables for 00 Series

	LEMO cable Part Number	Type	Impedance (Ω)	Conductor \varnothing (mm)	Dielectric \varnothing (mm)	Screen 1 \varnothing (mm)	Screen 2 \varnothing (mm)	Sheath \varnothing (mm)
Standard		RGT 316	50 ± 2	0.51	1.50	2.05	3.15	3.60
		RGT 403	50 ± 2	0.30	0.84	1.30	2.35	2.95
	017 410 LEDE	RGT 174	50 ± 2	0.48	1.55	1.90	2.90	3.90
	017 820 LEDE	RGT 178	50 ± 2	0.30	0.90	1.37	2.30	2.80
		Huber + Suhner G 02332	50 ± 2	0.49	1.50	2.00	3.05	4.25
		SMT 50	50 ± 2	0.16	0.52	0.85	1.35	1.60

Recommended coaxial cables for S and E Series

LEMO cable Part Number	Type	LEMO cable group	Impedance (Ω)	Conductor \varnothing (mm)	Dielectric \varnothing (mm)	Screen \varnothing (mm)	Sheath \varnothing (mm)
311 100 LEDE	RG 11 A/U	8	75 \pm 2	1.17	7.25	8.15	10.10
	RG 12 A/U	0	75 \pm 3	1.20	7.25	8.20	11.80
CCX.50.RG5.8CU50N	RG 58 C/U	6	50 \pm 2	0.90	2.95	3.60	5.00
CCX.50.RG5.9BU62N	RG 59 B/U	7	75 \pm 3	0.60	3.70	4.50	6.20
	RG 115 A/U	8	50 \pm 2	2.25	6.50	8.00	10.50
	RG 122 /U	4	50 \pm 2	0.80	2.50	3.20	4.10
CCX.50.RG1.42BU50M	RG 142 B/U	6	50 \pm 2	0.95	2.95	4.30	5.00
	RG 144 /U	8	75 \pm 3	1.35	7.25	8.00	10.40
	RG 165 /U	8	50 \pm 2	2.46	7.25	8.00	10.40
CCX.50.RG1.74AU27N	RG 174 A/U	3	50 \pm 2	0.48	1.50	2.00	2.80
CCX.50.RG1.78BU18M	RG 178 B/U	1	50 \pm 2	0.30	0.84	1.30	1.80
CCX.75.RG1.79BU26M	RG 179 B/U	5	75 \pm 3	0.30	1.50	2.00	2.50
CCX.75.RG1.87AU26M	RG 187 A/U	5	75 \pm 3	0.30	1.50	2.00	2.60
CCX.50.RG1.88AU26B	RG 188 A/U	2	50 \pm 2	0.54	1.50	2.00	2.60
CCX.50.RG1.96AU20B	RG 196 A/U	1	50 \pm 2	0.30	0.84	1.30	1.95
213 000 LEDE	RG 213 /U	8	50 \pm 2	2.25	7.25	8.20	10.30
	RG 214 /U	9	50 \pm 2	2.25	7.25	8.80	10.80
	RG 216 /U	9	75 \pm 3	1.20	7.25	8.80	10.80
	RG 223 /U	7	50 \pm 2	0.89	2.95	4.30	5.40
	RG 225 /U	9	50 \pm 2	2.40	7.25	8.80	10.90
	RG 302 /U	6	75 \pm 3	0.64	3.70	4.40	5.10
CCX.50.RG3.16U26M	RG 316 B/U	2	50 \pm 2	0.60	1.60	2.10	2.80
	RG 400 /U	6	50 \pm 2	1.00	2.98	4.20	5.00
	HF-2114 Dätwyler	3	50 \pm 2	0.48	1.30	1.90	2.70
	HF-5408/1 Dätwyler	7	75 \pm 3	0.60	3.80		5.60
	2YCCY 0.4/2.5 Siemens	6	75 \pm 2	0.40	2.50	3.70	4.50

Recommended coaxial cables for mixed coax, multi coax for S and E Series

LEMO cable Part Number	Type	LEMO cable group	Impedance (Ω)	Conductor \varnothing (mm)	Dielectric \varnothing (mm)	Screen \varnothing (mm)	Sheath \varnothing (mm)
CCX.50.RG5.8CU50N	RG 58 C/U	6	50 \pm 2	0.90	2.95	3.60	5.00
CCX.50.RG5.9BU62N	RG 59 B/U	5	75 \pm 3	0.60	3.70	4.50	6.20
	RG 122 /U	4	50 \pm 2	0.80	2.50	3.20	4.10
CCX.50.RG1.42BU50M	RG 142 B/U	6	50 \pm 2	0.95	2.95	4.30	5.00
CCX.50.RG1.74.AU27N	RG 174 A/U	1	50 \pm 2	0.48	1.50	2.00	2.80
CCX.50.RG1.78BU18M	RG 178 B/U	2	50 \pm 2	0.30	0.84	1.30	1.80
CCX.75.RG1.79BU26M	RG 179 B/U	3	75 \pm 3	0.30	1.50	2.00	2.50
CCX.75.RG1.87AU26M	RG 187 A/U	3	75 \pm 3	0.30	1.50	2.00	2.60
CCX.50.RG1.88AU26B	RG 188 A/U	1	50 \pm 2	0.54	1.50	2.00	2.60
CCX.50.RG1.96AU20B	RG 196 A/U	2	50 \pm 2	0.30	0.84	1.30	1.95
213 000 LEDE	RG 213 /U	7	50 \pm 2	2.25	7.25	8.20	10.30
	RG 223 /U	6	50 \pm 2	0.89	2.95	4.30	5.40
	RG 302 /U	5	75 \pm 3	0.64	3.70	4.40	5.10
CCX.50.RG3.16U26M	RG 316 /U	1	50 \pm 2	0.54	1.50	2.10	2.60
	RG 400 /U	5	50 \pm 2	1.00	2.98	4.20	5.00

Note: the cable group number corresponding to the chosen cable must be written in the variant position, see pages 15 and 17.

Recommended triaxial cables for S and E Series

LEMO cable Part Number	Type	LEMO cable group	Impedance (Ω)	Conductor \varnothing (mm)	Dielectric \varnothing (mm)	Screen 1 \varnothing (mm)	Screen 2 \varnothing (mm)	Sheath \varnothing (mm)
CTR.50.RG1.78BU29M	RGT 178	1	50 \pm 2	0.30	0.90	1.37	2.30	2.80
CTR.50.RG1.74AU39N	RGT 174	2	50 \pm 2	0.48	1.55	1.90	2.90	3.90
	9222 Belden	3	50 \pm 2	0.94	2.90	3.50	5.20	6.10
	HF-2318 Dätwyler	5	50 \pm 2	1.60	4.80	–	–	10.20
	8215 Belden	4	75 \pm 3	0.72	4.55	–	–	8.43
	8232A Belden	4	75 \pm 3	0.80	3.70	–	–	8.00
	HF-2426 Dätwyler	4	75 \pm 3	0.60	3.70	–	–	8.00
	RGT 179	6	75 \pm 3	0.30	1.60	2.10	3.10	3.60
375 029 LEDE	Triax 8 Nokia	4	75 \pm 3	1.00	4.50	5.20	7.20	8.50
	9267 Belden	5	75 \pm 3	0.84	3.70	–	–	9.20
466 140 LEDE	Triax 11 Nokia	7	75 \pm 3	1.40	6.50	7.20	9.40	10.90
	8233A Belden	7	75 \pm 3	1.60	7.30	–	–	12.10

Product safety notice

PLEASE READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY AND CONSULT ALL RELEVANT NATIONAL AND INTERNATIONAL SAFETY REGULATIONS FOR YOUR APPLICATION. IMPROPER HANDLING, CABLE ASSEMBLY, OR WRONG USE OF CONNECTORS CAN RESULT IN HAZARDOUS SITUATIONS.

1. SHOCK AND FIRE HAZARD

Incorrect wiring, the use of damaged components, presence of foreign objects (such as metal debris), and / or residue (such as cleaning fluids), can result in short circuits, overheating, and / or risk of electric shock. Mated components should never be disconnected while live as this may result in an exposed electric arc and local overheating, resulting in possible damage to components.

2. HANDLING

Connectors and their components should be visually inspected for damage prior to installation and assembly. Suspect components should be rejected or returned to the factory for verification. Connector assembly and installation should only be carried out by properly trained personnel. Proper tools must be used during installation and / or assembly in order to obtain safe and reliable performance.


3. USE


Connectors with exposed contacts should never be live (or on the current supply side of a circuit). Under general conditions voltages above 30 VAC and 42 VDC are considered hazardous and proper measures should be taken to eliminate all risk of transmission of such voltages to any exposed metal part of the connector.

4. TEST AND OPERATING VOLTAGES

The maximum admissible operating voltage depends upon the national or international standards in force for the application in question. Air and creepage distances impact the operating voltage; reference values are indicated in the catalog however these may be influenced by PC board design and / or wiring harnesses. The test voltage indicated in the catalog is 75% of the mean breakdown voltage; the test is applied at 500 V/s and the test duration is 1 minute.

5. CE MARKING

CE marking  means that the appliance or equipment bearing it complies with the protection requirements of one or several European safety directives.

CE marking  applies to complete products or equipment, **but not to electromechanical components, such as connectors.**

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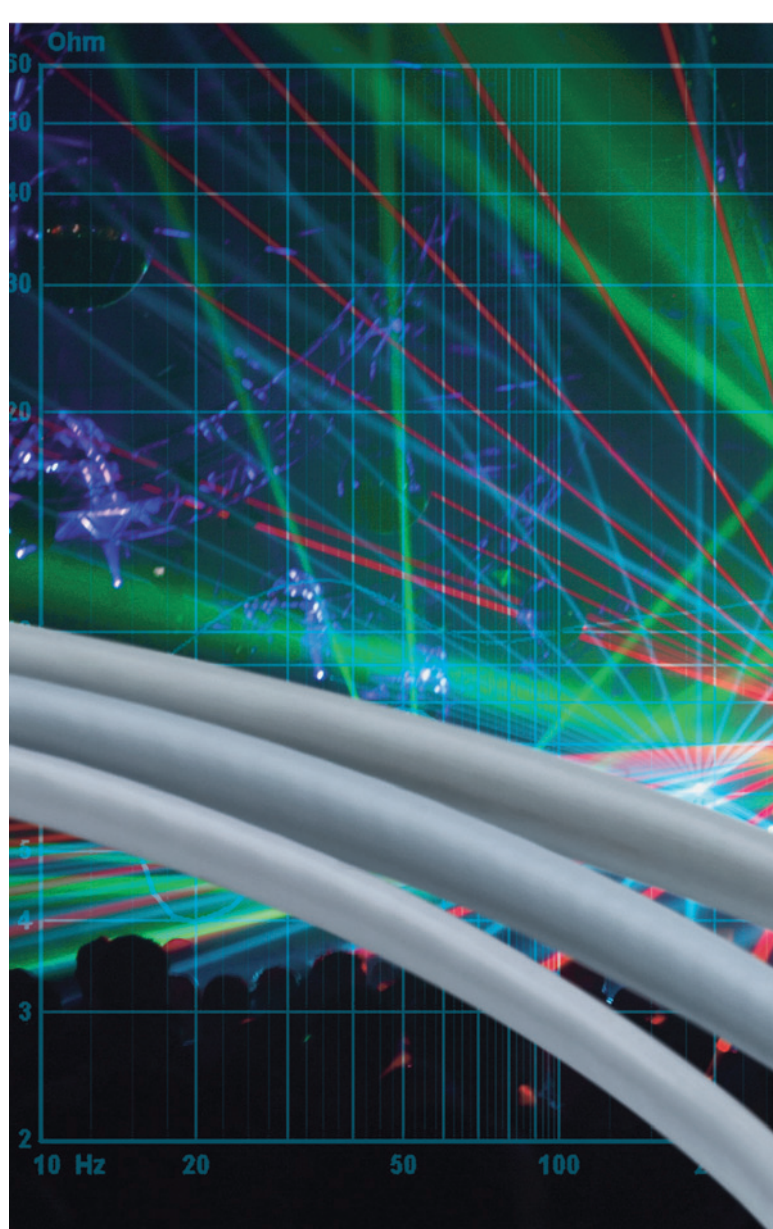
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