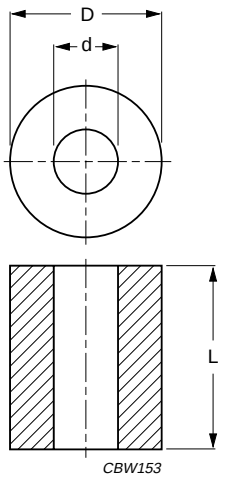
CABLE SHIELDS FOR EMI SUPPRESSION

Tubular cable shields



For dimensions see Table 1.

Fig.1 Tubular cable shield.

Table 1 Type numbers, dimensions and parameters; see Fig.1

TYPE NUMBER	DIMENSIONS			$\|Z\|_{typ}$ (1) (Ω) at	
	D	d	L	25 MHz	100 MHz
CST7.8/5.3/9.8-3S4 des	7.8 ±0.2	5.3 +0.3	9.8 ±0.2	33	50
CST8.3/3.5/10-3S4 des	8.3 –0.4	3.5 +0.3	10 –0.6	70	96
CST9.5/4.8/6.4-4S2 des	9.5 ±0.25	4.75 ±0.25	6.35 ±0.35	23	50
CST9.5/4.8/10-4S2 des	9.5 ±0.25	4.75 ±0.25	10.4 ±0.25	53	80
CST9.5/4.8/19-4S2 des	9.5 ±0.25	4.75 ±0.25	19.05 ±0.7	100	145
CST9.5/5.1/15-3S4 des	9.5 ±0.3	5.1 ±0.15	14.5 ±0.45	66	110
CST9.7/5/5.1-4S2 des	9.65 ±0.25	5 ±0.2	5.05 –0.45	26	43
CST14/6.4/29-4S2 des	14.3 ±0.45	6.35 ±0.25	28.6 ±0.75	170	250
CST14/7.3/29-4S2 des	14.3 ±0.45	7.25 ±0.15	28.6 ±0.75	143	215
CST16/7.9/14-4S2 des	16.25 –0.75	7.9 ±0.25	14.3 ±0.35	70	113
CST16/7.9/29-4S2 des	16.25 –0.75	7.9 ±0.25	28.6 ±0.75	130	213
CST17/9.5/13-3S4 des	17.45 ±0.35	9.53 ±0.25	12.7 ±0.5	55	90
CST17/9.5/13-4S2 des	17.45 ±0.4	9.5 ±0.25	12.7 ±0.5	55	88
CST17/9.5/29-3S4 des	17.45 ±0.35	9.53 ±0.25	28.55 ±0.75	125	200
CST17/9.5/29-4S2 des	17.45 ±0.35	9.53 ±0.25	28.55 ±0.75	125	250
CST17/11/60-3S4 des	17.2 –1.2	11 ±0.5	60 –2.5	200	320
CST19/10/29-4S2 des	19 –0.65	10.15 ±0.25	28.6 ±0.75	128	196
CST19/11/12-3S4 des	19 ±0.4	10.6 ±0.3	11.5 ±0.4	50	75
CST26/13/29-4S2 des	25.9 ±0.75	12.8 ±0.25	28.6 ±0.8	145	225
CST29/19/7.5-4S2 des	29 ±0.75	19 ±0.5	7.5 ±0.25	28	47

Note

1. Minimum guaranteed impedance is $|Z|_{typ}$ –20%.

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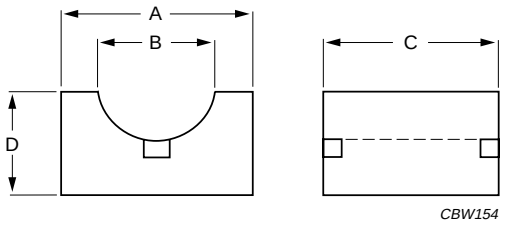
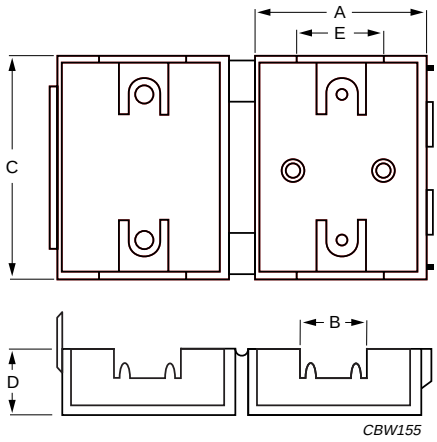
Round cable shields (split)



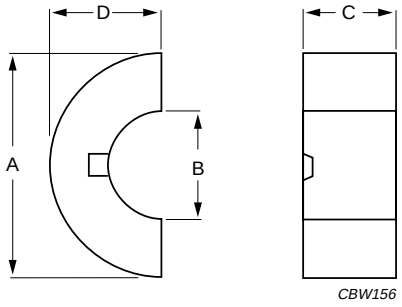
For dimensions see Table 2.

Fig.2 Shield (CSA) outline.



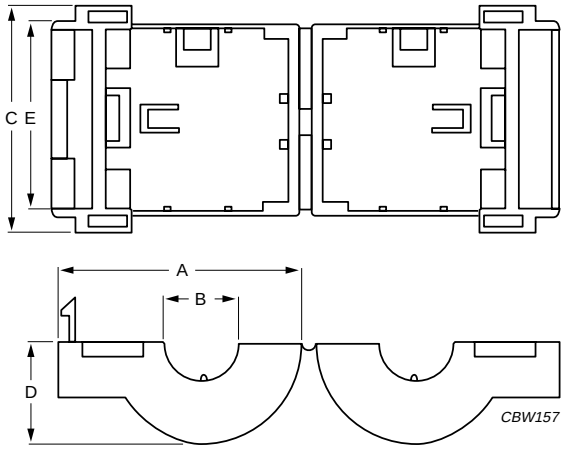
For dimensions see Table 2.

Fig.3 Nylon case.



For dimensions see Table 2.

Fig.4 Shield (CSC) outline.



For dimensions see Table 2.

Fig.5 Nylon case.

General data

ITEM	SPECIFICATION
Case material	polyamide (PA66), glass reinforced, flame retardant in accordance with *"UL94V-0"*, grade A82, colour black

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Table 2 Type numbers, dimensions and parameters; see Figs 2 to 3

TYPE NUMBER	FIG.	DIMENSIONS					$\|Z\|_{typ}$ (1) (Ω) at	
		A	B	C	D	E	25 MHz	100 MHz
Round cable shields								
CSA15/7.5/29-4S2 des	2	15 ±0.25	6.6 ±0.3	28.6 ±0.8	7.5 ±0.15	–	165	275
CSA19/9.4/29-4S2 des	2	18.65 ±0.4	10.15 ±0.3	28.6 ±0.8	9.4 ±0.15	–	140	225
CSA26/13/29-4S2 des	2	25.9 ±0.5	13.05 ±0.3	28.6 ±0.8	12.8 ±0.25	–	155	250
CSC16/7.9/14-4S2 des	4	15.9 ±0.4	7.9 ±0.3	14.3 ±0.4	7.95 ±0.2	–	50	113
Round cable shields in matching nylon cases								
CSA15/7.5/29-4S2-EN des	2+3	17.9	7.0	32.3	9.2	9.0	165	275
Nylon case	3	17.9	7.0	32.3	9.2	9.0	–	–
CSA19/9.4/29-4S2-EN des	2+3	22.1	10.2	32.3	11.7	9.0	140	225
Nylon case	3	22.1	10.2	32.3	11.7	9.0	–	–
CSA26/13/29-4S2-EN des	2+3	29	13.4	32.5	14.8	18.0	155	250
Nylon case	3	29	13.4	32.5	14.8	18.0	–	–
CSC16/7.9/14-4S2-EN des	4+5	24.7	7.6	22.8	10.2	17.8	50	113
Nylon case	5	24.7	7.6	22.8	10.2	17.8	–	–

Note

1. Minimum guaranteed impedance is $|Z|_{typ}$ –20%.

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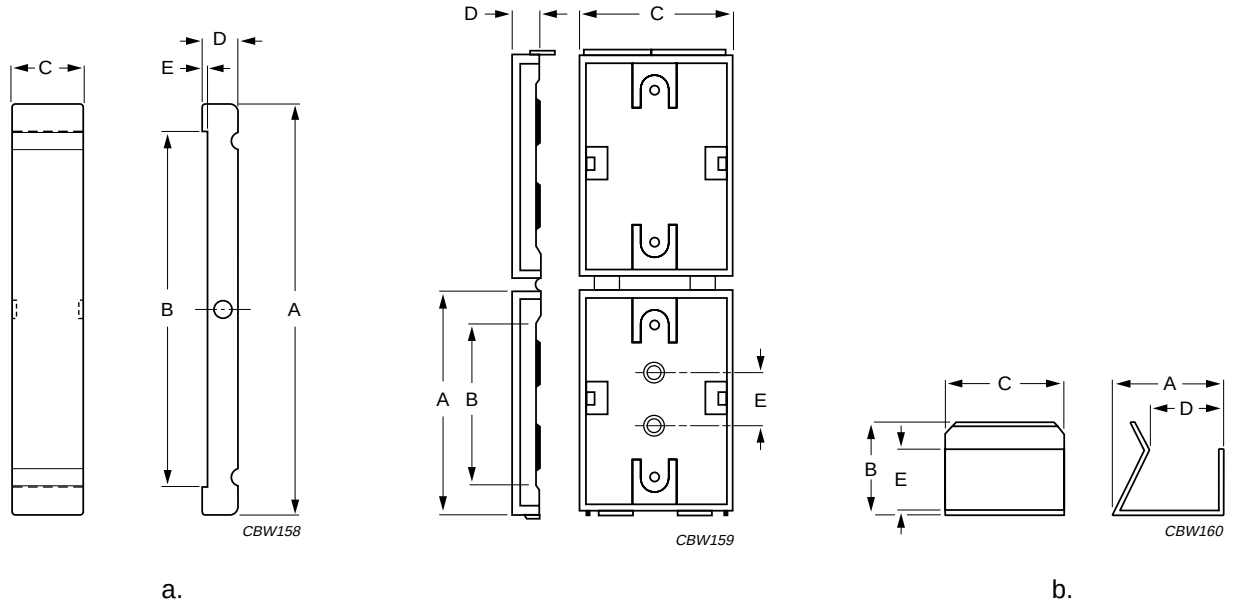
Flat cable shields (split)



a. b.

For dimensions see Table 3.

Fig.6 Outlines of flat cable shields (split) and accessories.

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General data

ITEM	SPECIFICATION
Case material	polyamide (PA66), glass reinforced, flame retardant in accordance with *"UL94V-0"*, grade A82, colour black
Clip material	spring steel (0.5 mm), zinc plated

Table 3 Type numbers, dimensions and parameters; see Fig.6

TYPE NUMBER	FIG.	DIMENSIONS					$\|Z\|_{typ}$ [1] (Ω) at	
		A	B	C	D	E	25 MHz	100 MHz
Flat cable shields (split)								
CSU45/6.4/29-4S2 des	6a	45.1 ±0.75	34.4 ±0.7	28.6 ±0.7	6.35 ±0.25	0.85 ±0.2	96	225
CSU76/6.4/13-3S4 des	6a	76.2 ±1.5	65.3 ±1.3	12.7 ±0.4	6.35 ±0.25	0.85 ±0.2	36	110
CSU76/6.4/15-3S4 des	6a	76.2 ±1.5	65.3 ±1.3	15.0 ±0.6	6.35 ±0.25	0.85 ±0.2	50	159
CSU76/6.4/29-4S2 des	6a	76.2 ±1.5	65.3 ±1.3	28.6 ±0.8	6.35 ±0.25	0.85 ±0.2	75	215
CSU76/6.4/29-3S4 des	6a	76.2 ±1.5	65.3 ±1.3	28.6 ±0.8	6.35 ±0.25	0.85 ±0.2	70	235
CLI-CSU6.4 des	6c	16.1	11.0	12.7	11.4	8.0	–	–
Flat cable shields in matching nylon cases								
CSU45/6.4/29-4S2-EN des	6a+b	49.5	34.3	32.3	8.1	20	96	225
Nylon case	6b	49.5	34.3	32.3	8.1	20	–	–
CSU76/6.4/29-4S2-EN des	6a+b	80.8	65.5	32.3	8.1	50.8	75	215
Nylon case	6b	80.8	65.5	32.3	8.1	50.8	–	–

Note

1. Minimum guaranteed impedance is $|Z|_{typ}$ –20%.

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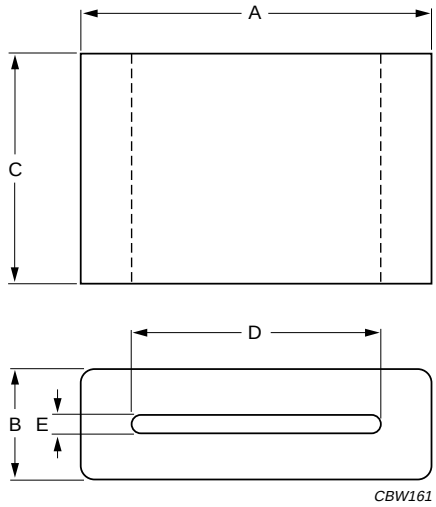
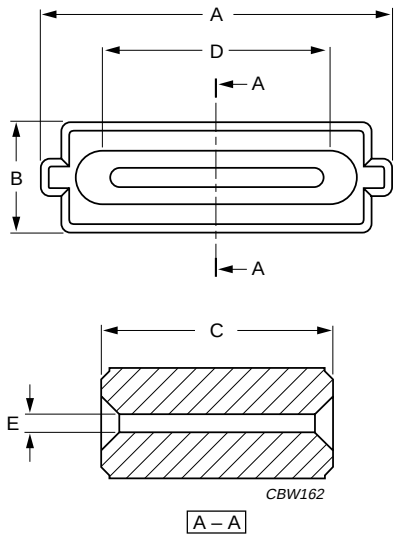
Flat cable shields



For dimensions see Table 4.

Fig.7 CSF38/12/25 outline.



For dimensions see Table 4.

Fig.8 CSF38/12/25-S outline.

Table 4 Type numbers, dimensions and parameters; see Figs 7 and 8

TYPE NUMBER	FIG.	DIMENSIONS					$\|Z\|_{typ}$ (1) (Ω) at	
		A	B	C	D	E	25 MHz	100 MHz
Flat cable shields								
CSF38/12/25-3S4	7	38.1 ±1.0	12.1 ±0.35	25.4 ±0.75	26.7 ±0.75	1.9 ±0.35	110	215
CSF38/12/25-3S4-S	8	38.5 ±0.6	12.1 ±0.4	25.4 ±0.8	26.8 ±0.8	1.9 ±0.4	98	196

Note

1. Minimum guaranteed impedance is $|Z|_{typ}$ –20%.

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