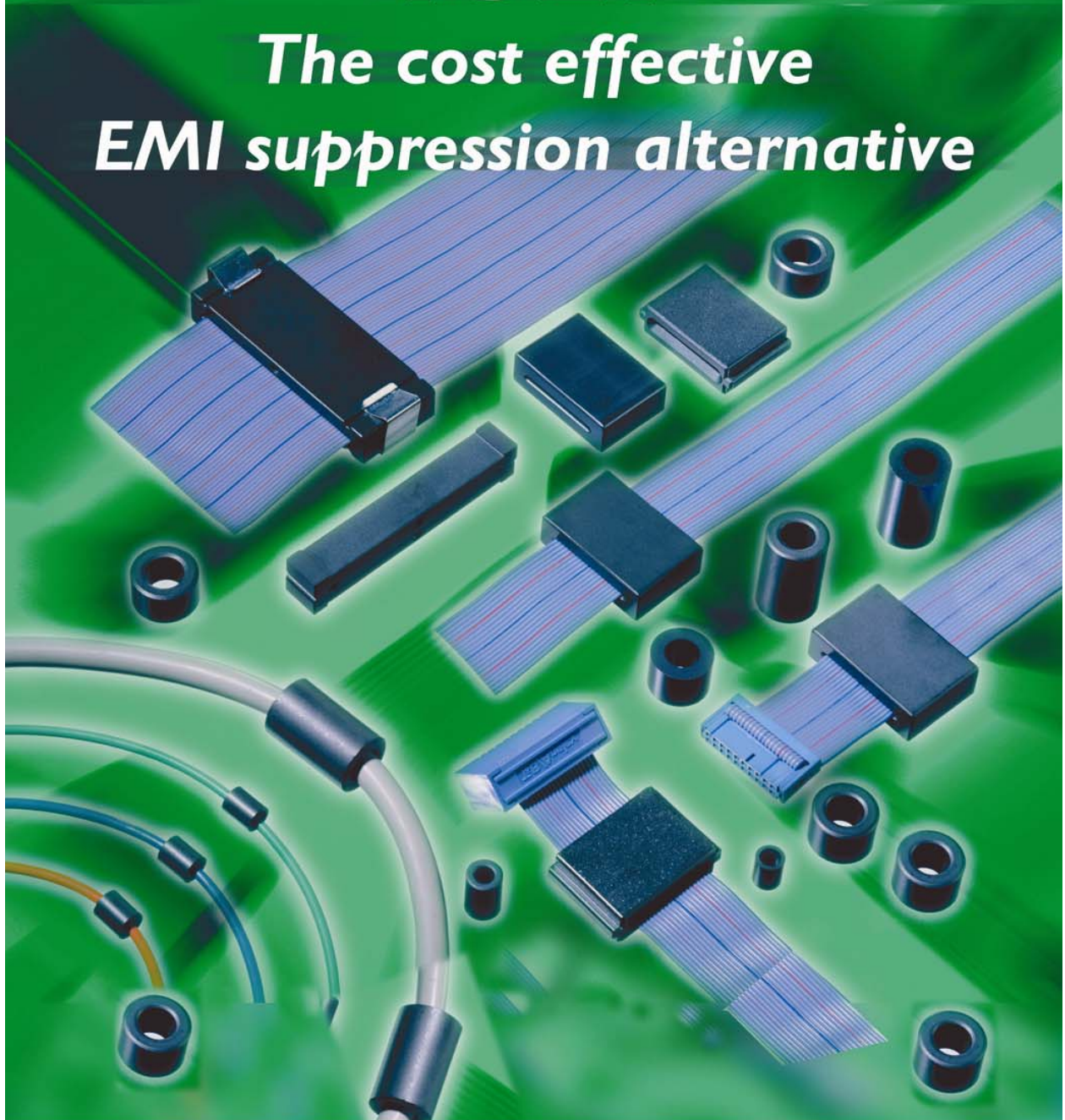


4S2F

*The cost effective
EMI suppression alternative*



Material specification

4S2F

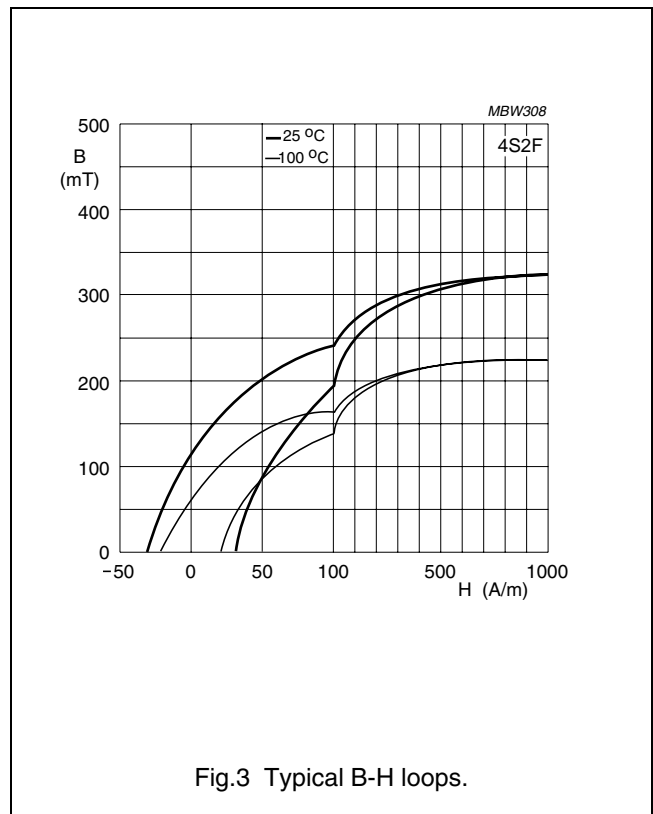
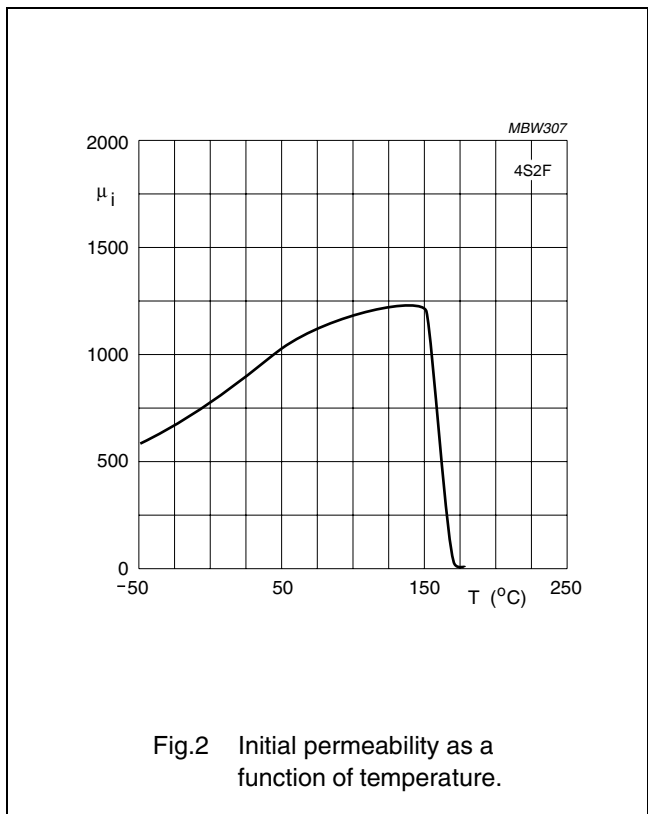
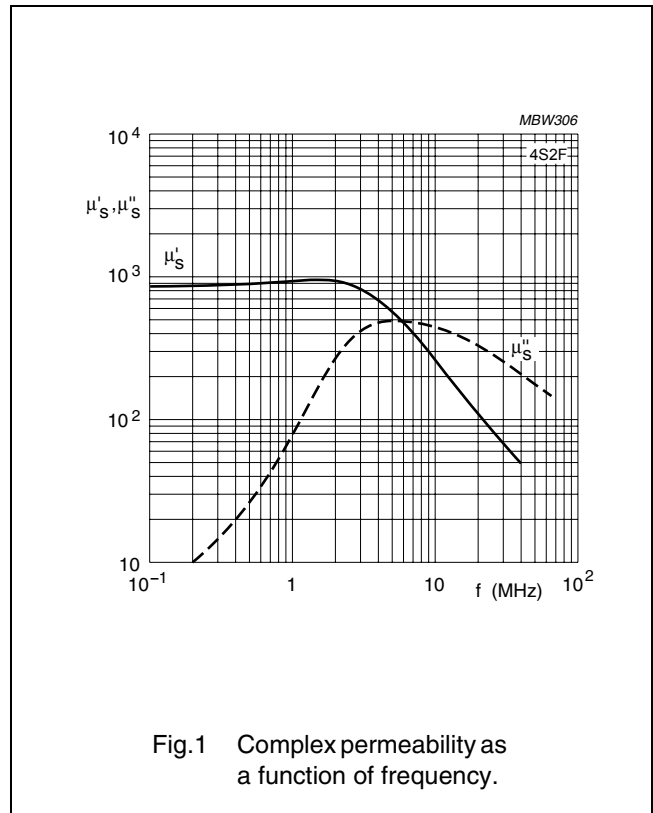
4S2F SPECIFICATIONS

Wideband EMI-suppression material specified on impedance and optimized for frequencies from 30 to 1000 MHz.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	≈ 700	
B	25 °C; 10 kHz; 1200 A/m 100 °C; 10 kHz; 1200 A/m	≈ 290 ≈ 170	mT
$ Z ^{(1)}$	25 °C; 30 MHz 25 °C; 300 MHz	≥ 50 ≥ 85	Ω
ρ	DC; 25 °C	$\approx 10^4$	Ωm
T_C		≥ 120	°C
density		≈ 4800	kg/m^3

Note

1. Measured on a bead $\varnothing 5 \times \varnothing 2 \times 10$ mm.



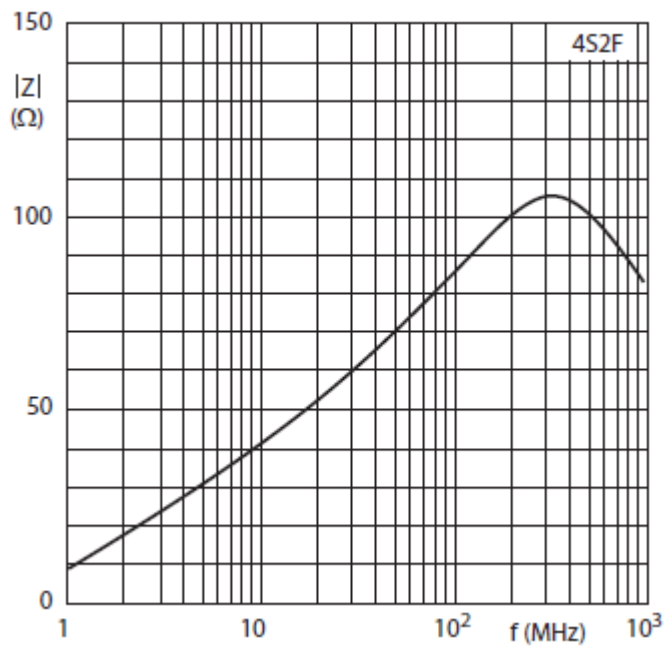
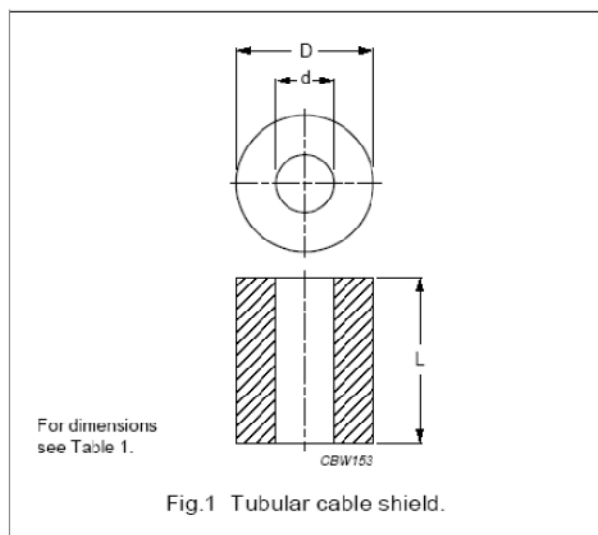


Fig. 4 Impedance as a function of frequency measured on a bead $\varnothing 5 \times \varnothing 2 \times 10$ mm

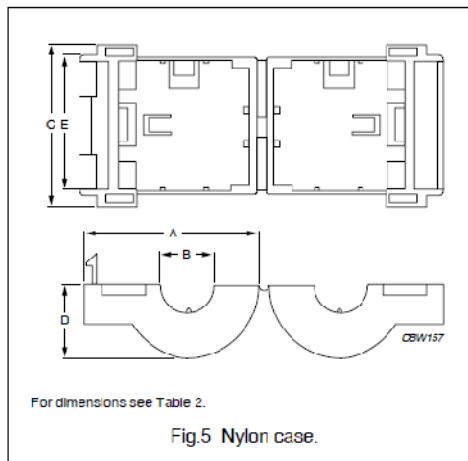
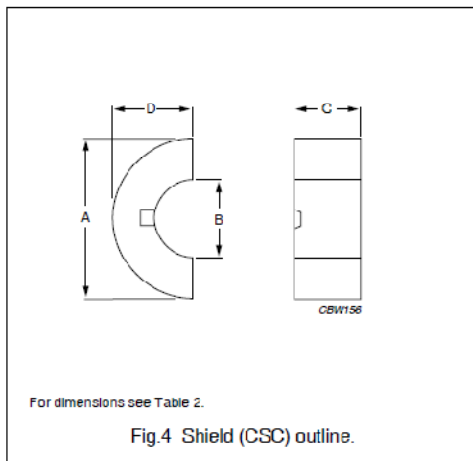
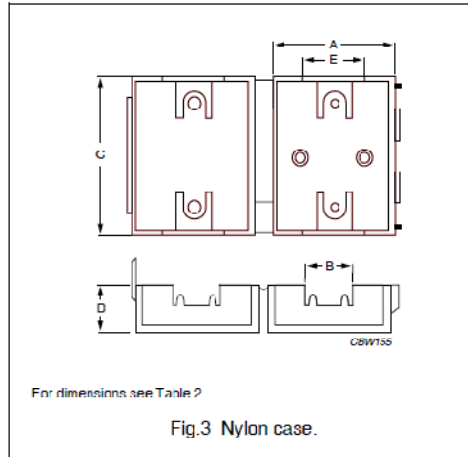
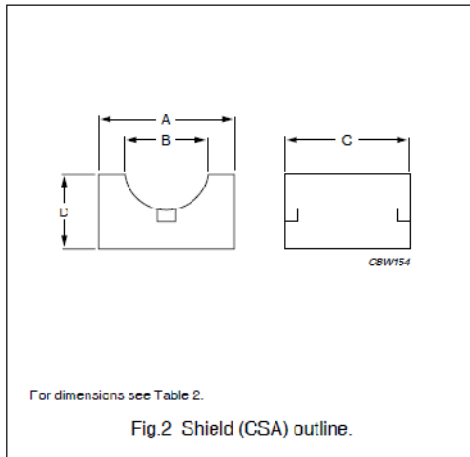
CABLE SHIELDS FOR EMI-SUPPRESSION

Tubular cable shields



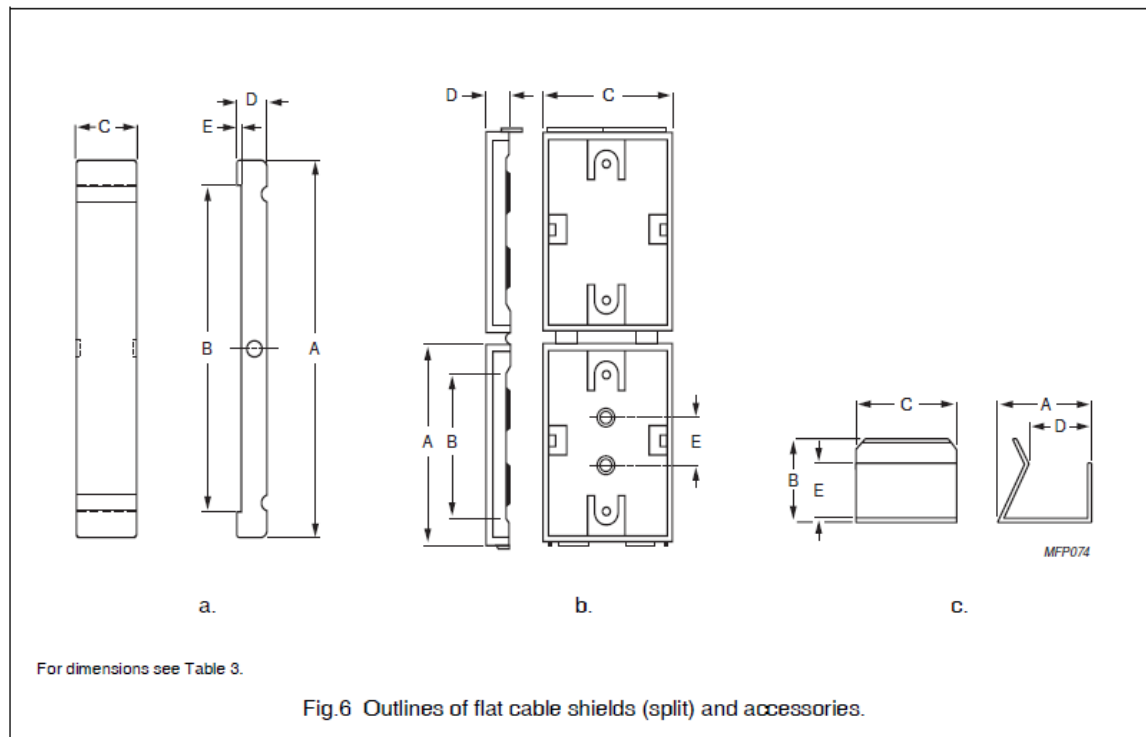
TYPE NUMBER	DIMENSIONS (Fig 1)			$ Z_{typ} ^1$ (Ω)	
	D	d	L	25 MHz	100 MHz
CST9.5/4.8/4.8-4S2F	9.5 ±0.25	4.75 ±0.25	4.8 ±0.2	18	35
CST9.5/4.8/6.4-4S2F	9.5±0.25	4.75 ±0.25	6.35 ±0.35	23	50
CST9.5/4.8/9.5-4S2F	9.5 ±0.25	4.75 ±0.15	9.5 ±0.35	40	70
CST9.5/4.8/10-4S2F	9.5 ±0.25	4.75 ±0.15	10.4 ±0.25	53	80
CST9.5/4.8/13-4S2F	9.5 ±0.25	4.75 ±0.15	12.7±0.5	60	95
CST9.5/4.8/19-4S2F	9.5 ±0.25	4.75 ±0.15	19.05 ±0.7	100	145
CST9.5/5.1/15-4S2F	9.5 ±0.3	5.1 ±0.15	14.5 ±0.45	66	110
CST9.7/5/5.1-4S2F	9.65 ±0.25	5 ±0.2	5.05 ±0.45	26	43
CST14/6.4/5.3-4S2F	14.3 ±0.45	6.35 ±0.25	5.3 ±0.45	35	60
CST14/6.4/10-4S2F	14.3 ±0.45	6.35 ±0.25	10.1±0.4	70	105
CST14/6.4/14-4S2F	14.3 ±0.45	6.35 ±0.25	13.8 ±0.4	90	150
CST14/6.4/15-4S2F	14.3 ±0.45	6.35 ±0.25	15 ±0.45	100	170
CST14/6.4/29-4S2F	14.3 ±0.45	6.35 ±0.25	28.6 ±0.75	170	250
CST14/7.3/29-4S2F	14.3 ±0.45	7.25 ±0.15	28.6 ±0.75	143	215
CST16/7.9/14-4S2F	16.25 ±0.75	7.9 ±0.25	14.3 ±0.35	70	113
CST16/7.9/29-4S2F	16.25 ±0.75	7.9 ±0.25	28.6 ±0.75	130	213
CST17/9.5/13-4S2F	17.45 ±0.4	9.5 ±0.25	12.7 ±0.5	55	88
CST17/9.5/29-4S2F	17.45 ±0.35	9.53 ±0.25	28.55 ±0.75	125	250
CST19/10/15-4S2F	19 -0.65	10.15 ±0.25	14.65 -0.75	70	110
CST19/10/29-4S2F	19 -0.65	10.15 ±0.25	28.6 ±0.75	128	196
CST26/13/21-4S2F	25.9 ±0.75	12.8 ±0.25	21.3±0.5	110	180
CST26/13/29-4S2F	25.9 ±0.75	12.8 ±0.25	28.6 ±0.8	145	225
CST29/19/7.5-4S2F	29 ±0.75	19 ±0.5	7.5 ±0.25	28	47

Round cable shields (split)



TYPE NUMBER	FIG.	DIMENSIONS					$ Z_{typ} ^1$ (Ω)	
		A	B	C	D	E	25 MHz	100 MHz
Round cable shields								
CSA15/7.5/29-4S2F	2	15 ±0.25	6.6 ±0.3	28.6 ±0.8	7.5 ±0.15	-	165	275
CSA19/9.4/29-4S2F	2	18.65 ±0.4	10.15 ±0.3	28.6 ±0.8	9.4 ±0.15	-	140	225
CSA26/13/29-4S2F	2	25.9 ±0.5	13.05 ±0.3	28.6 ±0.8	12.8 ±0.25	-	155	250
CSC16/7.9/14-4S2F	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								
CSA15/7.5/29-4S2F-EN	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	-	-
CSA19/9.4/29-4S2F-EN	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	-	-
CSA26/13/29-4S2F-EN	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	-	-
CSC16/7.9/14-4S2F-EN	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	-	-

Flat cable shields (split)



TYPE NUMBER	FIG	DIMENSIONS					$ Z_{typ} ^1$ (Ω)	
		A	B	C	D	E	25 MHz	100 MHz
Flat cable shields (split)								
CSU45/6.4/29-4S2F	6a	45.1±0.75	34.4 ±0.7	28.6 ±0.7	6.35 ±0.25	0.85 ±0.2	96	225
CSU76/6.4/29-4S2F	6a	76.2 ±1.5	65.3 ±1.3	28.6 ±0.8	6.35 ±0.25	0.85 ±0.2	75	215
CLI-CSU6.4	6c	16.1	11.0	12.7	11.4	8.0	-	-
Flat cable shields in matching nylon cases								
CSU45/6.4/29-4S2F-EN	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	-	-
CSU76/6.4/29-4S2F-EN	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	-	-

¹ Minimum guaranteed impedance is $|Z_{typ}|$ -20%