All drawings appearing in this Recommendation have been done in Autocad.

ANNEX A

(to Recommendation Q.552)

EXAMPLE OF A LONGITUDINAL INTERFERENCE COUPLING NETWORK

The component should be chosen with small absolute tolerances (at least resistors and capacitors with 1% and the inductance with less than 5%) and matched to pairs where relevant to achieve a longitudinal conversion loss better than 60 dB at 1000 Hz. For this LCL measurement a terminating resistance of 600 Ohms symetrically applied to each port should be used.

Figure A—1/Q.552 - T1105730-87

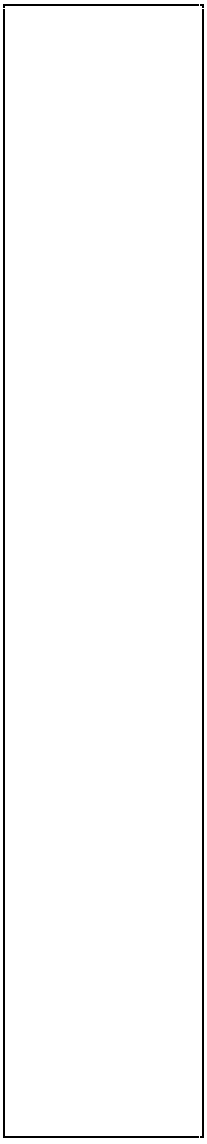

TABLE A—1/Q.552

Components list

	Quantity	Type
		Metallized resistors
1	10	R1 . . . R10: 100 ohm 1%, 1.1 W
2	4	R11 . . . R14: 49.9 ohm 1%, 1.1 W
3	12	R15 . . . R26: 133 ohm 1%, 0.35 W
4	12	R27 . . . R38: 32.4 ohm 1%, 0.35 W
5	2	R39 . . . R40: 24.9 ohm 1%, 0.35 W
6	4	R41 . . . R44: 200 kohm 1%, 0.35 W
		Styroflex foil capacitors
1	4	C1 . . . C4: 15 nF 1%, 160 V
2	8	C5 . . . C12: 7.5 nF 1%, 160 V
3	4	C13 . . . C16: 28 nF 1%, 160 V
4	2	C17 . . . C18: 24.3 nF 1%, 160 V
5	2	C19 . . . C20: 20 nF 1%, 160 V
6	2	C21 . . . C22: 499 pF 1%, 160 V
7	12	C23 . . . C34: 60.4 nF 1%, 63 V
		HF—chokes, ferrite rod
1	2	L1 . . . L2: 47 μH 5%, R_O 1.1 ohm