TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU

G.631

TRANSMISSION MEDIA CHARACTERISTICS

TYPES OF SUBMARINE CABLE
TO BE USED FOR SYSTEMS
WITH LINE FREQUENCIES OF LESS
THAN ABOUT 45 MHz

ITU-T Recommendation G.631

(Extract from the Blue Book)

NOTES

1	I'.	ΓU-T Re	commendation	G.631	was pub	lished	n Fascic	le III.3	of the	e Blue	Book.	This	file is	an ext	ract fro	m the
Blue	Book.	While t	the presentation	n and 1	ayout of	f the te	xt might	be sli	ghtly	differe	ent fro	m the	e Blue	Book	version	n, the
conte	ents of	the file a	are identical to	the Blu	e Book v	ersion	and copy	right c	onditio	ons rei	nain u	nchar	iged (s	see bel	ow).	

2	In	this	Recommendation,	the	expression	"Administration"	is	used	for	conciseness	to	indicate	both	8
telecomn	nuni	catio	n administration and	l a re	cognized op	erating agency.								

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Recommendation G.631

TYPES OF SUBMARINE CABLE TO BE USED FOR SYSTEMS WITH LINE FREQUENCIES OF LESS THAN ABOUT 45 MHz

(Geneva, 1976)

The CCITT,

recognizing

that the special complications of cable repair in the case of submarine cable systems laid in deep water (i.e. at depths where there is no need to use armoured cables) justify measures which would reduce the number of cable types with which repair ships have to deal;

appreciating

at the same time that system designers require flexibility in the choice of cables in order to optimize the overall cost per unit length of individual systems;

recognizing

that the most significant cable characteristics in determining whether any two cables may be joined together are:

- the inner diameter of the outer conductor,
- the characteristic impedance of the cable,

recommends

that for submarine systems handling line frequencies up to 45 MHz the cable used in the deep water sections of such systems should conform with the limits set out in Table 1/G.631.

TABLE 1/G.631

Inner diameter of outer conductor	25.0-25.5 mm	37.0-38.5 mm	43.2 mm
Characteristic impedance	43-46 Ω	a) 53-54 Ω	a) 49-50 Ω
		b) 60-62 Ω	b) 53-54 Ω
			c) 60-62 Ω