

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG **NEW DELHI 110002**

IS: 11719 (Part 2/Sec 1) - 1986

3. Subrack Description — For the purpose of this standard a typical subrack comprises horizontal members, secured between two side plates as shown in Fig. 2. The side plates have right-angled flanges equivalent to the extremities of the panels shown in IS : 9606-1980.

4. Subrack Basic Dimensions — Subrack basic dimensions are given in Fig. 2. The following notes and Table 1 are to be read with Fig. 2.

Note 1 — 81 \times 5.08 (mm) is permissible for case mounting or for use with telescopic slides.

Note 2 — In designing to this dimension, it should be noted that the distance between rack uprights specified in IS : 9606-1980 is 450 mm minimum. Earlier racks could have an aperture of 447 mm minimum as specified in IS : 9606-1980.

Note 3 --- Clearance for PB coding, ejectors, etc.

Note 4 — The guidance dimension Hg shall be derived from the printed board height Hb according to 3 of IS: 11719 (Part 2/Sec 2)-1986 'Dimensions of mechanical structures of the 482.6 mm series: Part 2 Subracks and associated plug-in units, Section 2 Plug-in units'. Adequate engagement and interchangeability shall be maintained between plug-in units and guide rails.

Note 5 — The position of the centreline of the first printed board will depend on the connector chosen. The preferred dimensions of A is 3.27 mm unless found to be impracticable.

Note 6 — Side plates may be extended by 60 mm beyond the rear attachment plane. The rear edge of a non-extended side plate need not coincide with the rear attachment plane.

Note 7 — Dc and C dimensions and tolerances are dependent on the chosen connector [see 4 of IS: 11719 (Part 2/Sec 2)-1986].

Note 8—The detail shown in item Z for recessed panels is preferred for future designs. Item Y shown in Fig. 1 of IS: 11719 (Part 2/Sec 2)-1986 should be considered when designing the horizontal members.

Note 9 — The range of four depths stated are those which are preferred. If necessary manufacturers can increase the depth in increments of 60 mm. *Ds* is a preferred dimension for the depth of subracks when subracks are supplied without mounting brackets for PB-connectors.

Note 10 — The manufacturers of subracks shall define the fastening dimensions and tolerances so that they are compatible with the dimensions of the plug-in units given in Fig. 1 and 2 of IS : 11719 (Part 2/Sec 2)-1986 such that interchangeability is guaranteed.

Note 11 – The width of the guide slot shall accommodate a 1.6 \pm 0.2 mm thick printed board in accordance with IS : 5921 (Part 1)-1970 'Specification for metal-clad base material for printed circuits for use in electronic and telecommunication equipment: Part 1 General requirements and tests (*first revision*)'.

Note 12 — The symbol U means a vertical increment of 44.45 mm. Tolerances are non-cumulative.

Note 13 — Actual outside dimensions and slot details are given in IS : 9606-1980.

TABLE 1 SUBRACK BASIC DIMENSIONS

All dimensions in millimetres.

n x U (See Note 12)	20	3 <i>U</i>	4 <i>U</i>	5 <i>U</i>	6 <i>U</i>	7 Ų	80	9 <i>U</i>	10 <i>U</i>	1 <i>1U</i>	12 <i>U</i>
Hs minimum		67.55	112.00	15 6 ·45	200.90	245.35	289.80	334.25	3 78∙70	423·15	467 [.] 60	512.05
F ± 0.20		78.05	122 [.] 5	166-95	21 1 ·40	255 [.] 85	300.30	344.75	389-20	433.65	478 [.] 10	522· 55
	1	-					112 [.] 24					
$Ds \pm 0.5$	2						172.24					
(See Note 9)	3						232.24					~~
	4						2 92·24					

EXPLANATORY NOTE

This standard (Part 2) is based, without any technical change, on IEC Pub 297-3 (1984) 'Dimensions of mechanical structures of the 482.6 mm (19 in) series: Part 3 Subracks and associated plug-in units', issued by the International Electrotechnical Commission.



ω

Printed at Printograph, New Delhi, India