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Summaries

p. 390...406

Simultaneous measurement of insertion loss and return loss on optical plugs

G. Bodmer and R. Novák, Berne

The optical plug belongs to the important elements of a transmission line. Its characteristics, and particularly its insertion loss and return loss, can influence the whole transmission and must therefore be accurately measured. The authors describe a new method and apparatus for measuring both parameters **at the same time**. The dynamic range lies at approximately 60 dB for the return scattering measurements on monomode components. The long-term measuring accuracy of the insertion loss is 0.05 dB.

p. 407...414

Measures for improving the electromagnetic tolerance (EMV) at the PTT

P. Lüthi, Berne

With the introduction of modern digital electronic telecommunications equipment, the preventive measures against interference were also adapted to the new conditions. The author gives an outline of the measures which were undertaken within the framework of electromagnetic tolerance according to the concepts of the PTT.

p. 415...426

New series of telephone sets LW 700

R. Burkhard, Solothurn

The article describes two new sets, the LW 700 Commerce and the LW 700 Comfort. They will constitute the new series of sets LW 700 together with the type Compact introduced in 1986. The sets described offer more convenience in spite of the small size. Technical solutions and performance characteristics are outlined.

News Items

Telephone

The three further MTX-exchanges of the **Natel C mobile telephone system**, Lausanne, Lucerne and Chur, have been connected to that of Zurich the end of July. At the same time 70 of the 106 base stations planned for phase 2 have begun operation. Together with the 31 (from 33 planned) of phase 1 in greater Zurich there are now 101 base stations available. With the exception of a few gaps the large cities and the main traffic routes East-West and North-South are now provided for. The number of Natel C subscribers have increased in the month reviewed about 3000 or **about 21 pc**.

In the first half of this year **60 cable lines and 179 satellite circuits** for the Swiss international telephone traffic have been **newly connected**, from these 8 and 16 resp. with Africa, 35 and 128 resp. with North and South America, 17 and 31 resp. with Asia and 4 (over satellite) with Oceania.

A service attended **telephone centre** has been installed in the shopping area of the **Lucerne main station**.

A **'telephone shop'** has opened in **Bulle** for customer service and advice on telecommunication questions in the Gruyere region and in the Pays d'Enhaut.

In the month reviewed, **new connections with Guinea and Togo via Leuk ground station and Intelsat** (4 lines each) and additionally **with USA** (12), **Jordan** (1), **Thailand** (3) and **Mexico** (2) have been made available.

Teleinformatics

Due to **heavy floods** by the Nile River, the telegraph **connections with the Sudan were interrupted** from 9th August.

For **business communication** use, two lines have been connected **via Intelsat with USA** and one digital each have been connected **via Eutelsat with Great Britain and the Netherlands**.

Access to the German television text and the Luxemburg videotex is expected at the end of the year.

Packet switching traffic has been opened between **Switzerland and Chile** in both directions.

Radio, television, telecommunications

All **VHF/FM transmitters** of the **Säntis, Rigi, Üetliberg, La Dôle and Mt-Pèlerin** stations are equipped with codes for the **radio data system** and have been put into operation. The main East-West traffic route (N 1) should be RDS connected by the end of 1988/beginning of 1989. In addition to the programme, data will also be transmitted over programme and alternative frequencies.

The **television transmitter Mt-Pèlerin (for DRS and TSI) and Bantiger (for SSR)** have been replaced by **two channel tone** suitable installations.

The local call is now also in the **Aarau-Olten and Baden-Brugg agglomeration**.

The **post auto Interlaken group schedule (Interlaken-Beatenberg, Interlaken-Habkern)** have had **radio telephone** at their disposal since the middle of July.

The **national highway tunnels of the N 1 from Arzilier and St. Maurice** have been equipped with a **police tunnel radio installation** and maintenance service.

Miscellaneous

A **new record** is emerging for 1988 with **almost 66 900 new main telephone lines in the first half of the year**.

In July, **27 glass fibre cable installations** were put into operation with a total length of 85 km and with 10...40 fibres/cable. This concerns 6 district exchanges, 5 inter exchanges and 16 special cables to transmitter stations and large subscribers.

From **October**, those who possess a postcheque account and a videotex apparatus can make **payments from their home electronically with 'Telegiro PTT'**.