1.**Suitable Scope**

This technical specification applies to the RS485 interface specification between the Argentina Project Network Control System (TCMS) and the Automatic Broadcast (PIDS) system.

2. **Things Interface**

TCMS and PIDS are connected by a single RS-485 (half-duplex bidirectional point-to-point communication), through which information is exchanged between TCMS and PIDS, and each head TCMS provides an interface with PIDS communication.

The RS-485 parameters used are configured as follows:

Baud rate: 19200bps

Data bits: 8,

Check digit 1 odd parity

Starting position: 1

Stop position: 1

Main station: TCMS

Slave: PIDS

Communication cycle 300ms

Slave response time: less than 20ms

Cable: 120 ohm, shielded, twisted pair

The following figure shows the interface wiring:



A resistance of 120 ohms is connected in parallel between the beginning and the end of the line to minimize reflections on the line.

3. **Number Exchange TCMS and PIDS exchange data with RS-485 to transmit fixed-length messages.**

3.1 TC Data content sent by MS to PIDS



3.2 TCMS data sheet sent to PIDS



3.3 PIDS data content sent to TCMS

3.4 Data description sent by PIDS to TCMS

