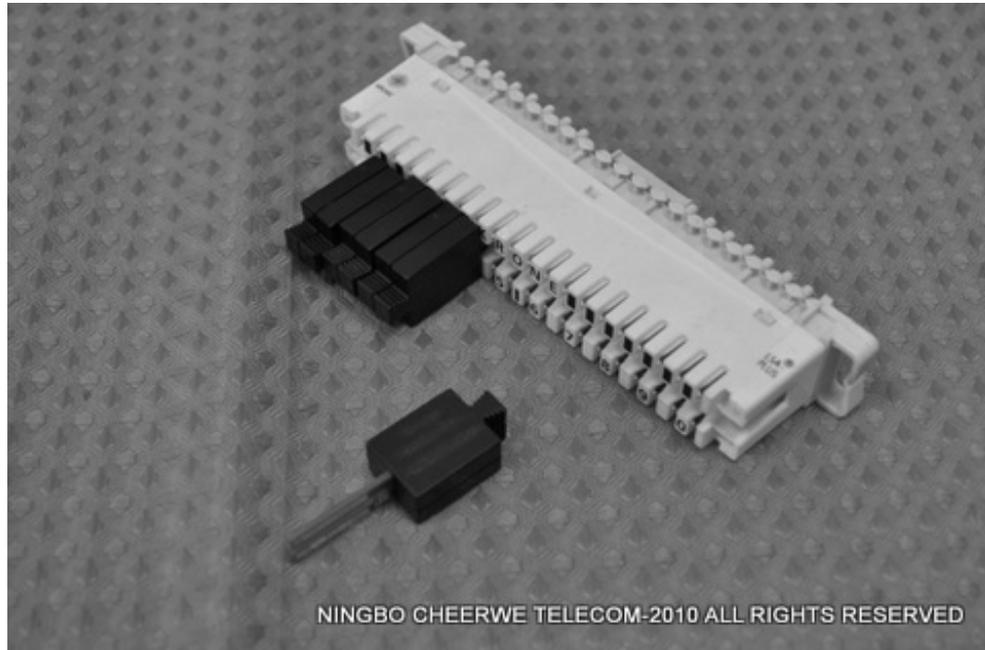


SPLITTER FOR MDF

SPLITTER FOR CW krone 10 pair Disconnection Module



Description:

We have developed ADSL and VDSL splitters and filters for installation both in the CO and in the customer premises. Duratel splitters comply with the relevant ETSI (TS 101952) and ITU-T (G.992, G.993) standards, as well as with the specific customer requirements and with the RoHS and RAEE Directives. All filters are of the type approved by the relevant customer laboratories and/or by the Italian Ministerial Body for Telecommunications (ISCOM).

As a result of the big growth of xDSL connections, central offices of telecom operators are overcrowded with many interconnecting cables. DURATEL xDSL modular splitter blocks are installed in the MDF and combine the xDSL and the POTS signals over the customer line. In this way, the number of cables connecting the DSLAM with the Main Distribution Frame (MDF) is halved and space is saved in the MDF and in the interconnecting cabling structure. The diagrams below show how, including the POTS splitter into the MDF, it is possible to halve the interconnections between the DSLAM and the MDF.

Specification:

Parameter	Parameter	Frequency range
Line Impedance	600Ω	0.2kHz-4kHz
CO impedance	600Ω	0.2kHz-4kHz
RT impedance	600Ω	0.2kHz-4kHz
VDSL port termination ZHP-c	100Ω//0.47mH	
VDSL modem impedance	100Ω	25kHz-30MHz
Nominal Voice Band		0.3 kHz-3.4 kHz
Ringling frequency		25-50 Hz
VDSL2+Band		25kHz-30MHz
DC series resistance	<25Ω	DC
DC insulation resistance(tip & ring)	>5MΩ	DC
DC insulation resistance (tip,ring and ground)	>20MΩ	DC
Maximum DC loop current	100mA	DC
Maximum differential voltage	250V	DC
Maximum AC voltage	100 Vrms	
Nominal Signal	21 mVpp to 5.4 Vpp	
Ringling Signal	100 Vrms	

Impedance for Ring Signal	>40k Ω	25-50 Hz
Pulse metering tone	10 Vpp to 30.2 Vpp	16 kHz
Insertion Loss for Metering Signal	<3 dB	16 kHz
Insertion Loss in Voice Band	<0.3dB	1 kHz
Distortion of insertion Loss(relative to 1 kHz)	<+/-0.3 dB	0.2 kHz-4 kHz
Stop band attenuation in VDSL Band (600 Ω)	>55 dB	25kHz-30MHz
Return Loss in Voice Band	>18 dB	0.5 kHz-2 kHz
	>14+18.05 log(f/300) dB	300 Hz-500 Hz
	>18-17.35 log(f/2000) dB	2 kHz-3.4 kHz
Intermodulation distortion	2 nd ,3 rd harmonic distortion products:>57 dB,60	4 tone method
Delay distortion	<150 μ s	0.2 kHz-4 kHz
Longitudinal conversion loss at LINE and POST ports	>40dB	15 Hz-50 Hz
	>46dB	50 Hz-600 Hz
	>52dB	0.6 kHz-3.4 kHz
Loading of the VDSL signal path (100 Ω)	>0.3dB	25kHz-30MHz