

10 Pairs Connection & Disconnection Module For Plastic Insulated Copper Conductors

Copper conductor diameter : 0.40 - 0.80mm AWG 26-20
 Multistrand conductor : 7/0.2 - 7/0.32mm
 Insulation diameter : 0.70 - 1.50mm
 Number of equal diameter : 2 max. (up to 0.65mm each)
 Conductors per slot

Transmission Data

Crosstalk Attenuation
 <Frequency Cross Talk >
 300 Hz to 3400 Hz : ≥ 110 dB
 3.4 KHz to 10 KHz : ≥ 100 dB
 10 KHz to 1.2 MHz : ≥ 60 dB
 1 MHz : ≥ 50 dB
 10 MHz : ≥ 35 dB
 20 MHz : ≥ 30.5 dB
 Insertion loss : ≤ 0.1 dB
 <Bit Error Rate (50mV signal) >
 8.448 Mbit (PCM 120) : ≤ 7
 2.048 Mbit (PCM 30) : 0
 140 kbit : 0
 64 kbit : 0

Electrical Data

<Voltage > Proof : 3.6KV (1.2/50 μ s pulse)
 Dielectric strength : 2.0KV rms
 <Current > Surge : 10KA (wave 8/20 μ s)
 Continuous : equal to terminated conductor rating
 <Resistance > Insulation : $\geq 5 \times 10^4 M\Omega$
 Termination typical : $< 1m\Omega$
 Guaranteed : $\leq 8m\Omega$
 <Capacitance > Adjacent contacts : $< 1pF$

Mechanical Data

Termination Type : Insulation Displacement, dry gas tight
 Wire Insertion Force : 40 - 75 Newtons
 Wire Pull out Force : 10.5 Newtons
 Wire Retention Force : 70% of wire breaking force

Material

Plastic Components : PBT self extinguishing V.O. according to UL 94.
 Flammability to M147
 Contact Material : Phosphor Bronze
 Plating : Silver

Environmental

Temperature Range : -40 + 90
 Storage : -20 + 80
 Operational : 95%
 Humidity

10 Pairs Magazine with 3 Poles Arresters

Electrical Characteristics

In addition to this specification, general electrical characteristics test and measurement should be performed in the environment at the temperature $25 \pm 10^\circ C$ and relative humidity $60 \pm 25\%$ and completed three plates assembly set test.

Insulation Resistance

The value of insulation resistance measured at between ground plate (E) and electrode (L1, L2) with DC 50 volts should be more than $1000 m\Omega$.
 Test Result : more than $10^{12} \Omega$

Electro Static Capacity

The value measured between ground plate (E) and electrode (L1, L2) with 1 MHZ should be less than 10 PF.
 Test Result : 4.7 ~ 8.8 PF

AC Breakdown Voltage

Make insulation with $10k\Omega$ series and increasing gradually with 60 HZ A.C Voltage, then discharge within the range of $\pm 20\%$ A.C 163V should be occurred.
 Test Result : 164 ~ 173V

Blocking the Continuous Flowing

When 200Ω resistance is connected on DC 53V and impress the impulsive wave $10 \times 200 \mu s$. 200A discharge time should not exceed 0.5 sec.
 Test Result : 0.15 ~ 0.4 m/sec

Impulse Breakdown Voltage

When impressed the ascending voltage of 75 volts per microseconds with $10 \times 1000 \mu s$ impulsive wave, discharge should be less than 750 Volts.
 Test Result : 210 ~ 230V

Material

Housing : PBT UL94V-0 or ABS UL94V-0
 Contact : Phosphor Bronze
 Plating : Silver

Arresters Technical Specification Model : 3YVJ - 230J1F2

DC Sparkover Voltage (L1-E) (L2-E)	100V/s	$230V \pm 20\%$
Impulse Sparkover Voltage (L1-E) (L2-E)	100V/ μs	$\leq 500V$
	1kV/ μs	$\leq 650V$
Insulation Resistance		$\geq 10,000M\Omega$
Capacitance	1MHz	$\leq 3.0pF$
DC Holdover Voltage		$\leq 135V$
Impulse Life (L1 + L2-E)	10/1000 μs , 400A	300 times
Impulse Discharge Current, 8/20 μs (L1 + L2-E)	Single	20kA
	Repeat 10 times (5 times each polarity)	10kA
AC Discharge Current, 50Hz (L1 + L2-E)	Single (9 Cycles)	130A
	Repeat 10 times (1 second)	10A