



## YAK-5 MODULE

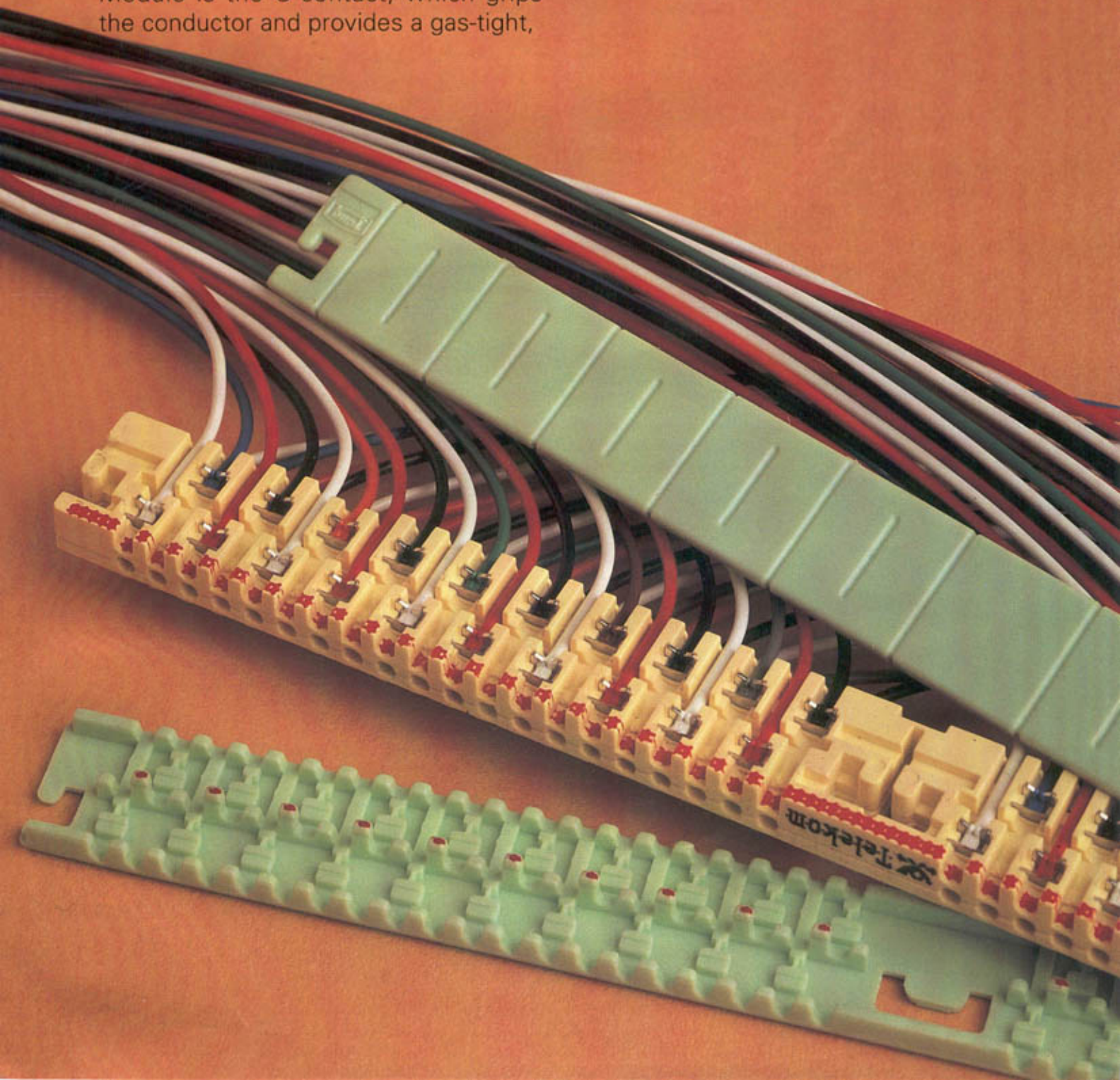
\* YAK-5 Module enables the user to connect 20 pair of conductors in any combination of 0,32-0,8 mm (28-20 AWG) with a maximum outer diameter of 1,65 mm. within a single Module.

\* The basic element of the YAK-5 Module is the U-contact, which grips the conductor and provides a gas-tight,

solder-equivalent termination.

\* Stainless steel cut-off blades in the body of YAK-5 Module, trim excess wire off during the crimping operation.

\* YAK-5 Module includes test entry ports for pair access and circuit testing.

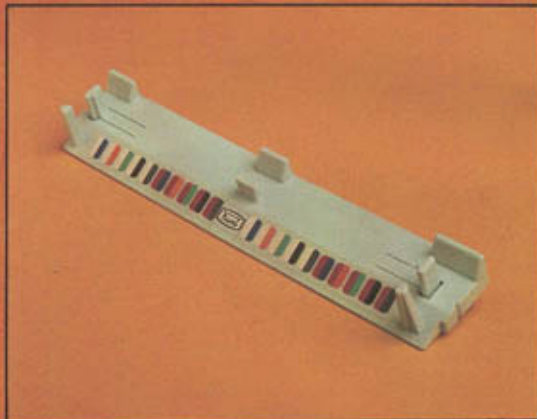


TESTS			TEST CONDITIONS	DEMAND
ELECTRICAL TEST	Connection	Contact Resistance	4 wire technique; ≤ 20 mV and ≤ 50 mA	R < 2 mΩ
		Stability Tests	Dielectric Strength (AC)	50 Hz. ; over 60 sec. ; ≥ 3000 Veff
	Dielectric Strength (Surge)		3600 V ; 1,2/50 μsec.	no spark over
	Pulse Current Strength		4000 A ; 8/20 μsec.	Contact element must not get dark
	Insulation Strength	High Humidity	between 4 °C and 60 °C at 95% r.H. with 3 and 3/4 hour min. dwell.;150 12-hour cycles.	10 <sup>8</sup> Ω
		Water Immersion	5% salt water; 250 V DC; 30 days	10 <sup>8</sup> Ω
	Accelerated Ageing Tests	Stress Relaxation	118 °C ; 33 days ; 2,2 N force	ΔR < 1 mΩ
		Temperature Cycle	between -40 °C and +60 °C ; 512 8-hour cycles	ΔR < 1 mΩ
		Temperature Cycle with High Humidity	between -40 °C and +60 °C ; 95% r.H. ;300 12-hour cycles.	ΔR < 1 mΩ
		Heat / Cold Test	-195 °C (20 sec.); +82 °C (240 sec); 100 cycles	ΔR < 1 mΩ
	Vibration test	10-55 Hz ; 0,35 mm; 30 cycles; 3 planes	ΔR < 1 mΩ	
MECHANICAL TEST	Tensile Strength		cross-head speed of 1 mm/sec.	> 85% control wire breaking strength
	Wire Torsion		The wires are bent 90° against the connector body and rotated 180° to each side 10 times.	No wire breakage or slipping in contact.
	Wire Bending		The conductors are bent 90° toward each side 10 times	No wire breakage or slipping in contact.
CORROSSION TESTS	Salt Spray Test		30 °C; 5% salt water; 1458 hours	ΔR < 2 mΩ
	Hydrogen Sulfide Test		1 cm <sup>3</sup> /m <sup>3</sup> H <sub>2</sub> S 105 °C 1 hour ; 1 cm <sup>3</sup> /m <sup>3</sup> H <sub>2</sub> S 55°C 1 hour ; 100 cycles	ΔR < 2 mΩ
	Galvanic Corrosion		4 °C(min. 3,5 hours) and 60 °C(min. 3,5 hours) 95% r.H. ; 5 months 12 hour cycles.	ΔR < 2 mΩ

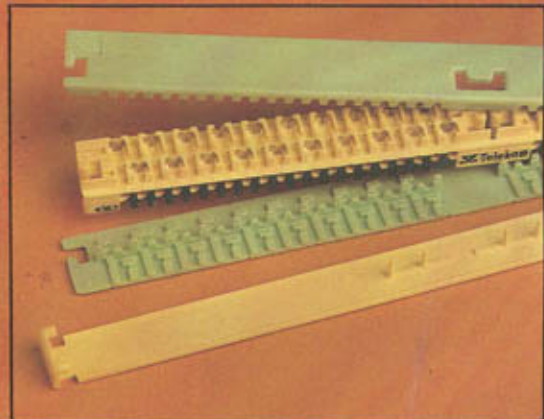
\* YAK-5 U Module is designed for half-tap splicing. They are no cut-off blades in the bottom of the Module's body.

\* The run or through wire can be half-tapped without cutting the conductors. The wires in the base are electrically connected, but they are not cut-off.

\* YAK-5 U Module body is on the front side and green colored for easy identification.



YAK-5A Adapter for Splicing Rig



YAK-5U Paralel Module

