

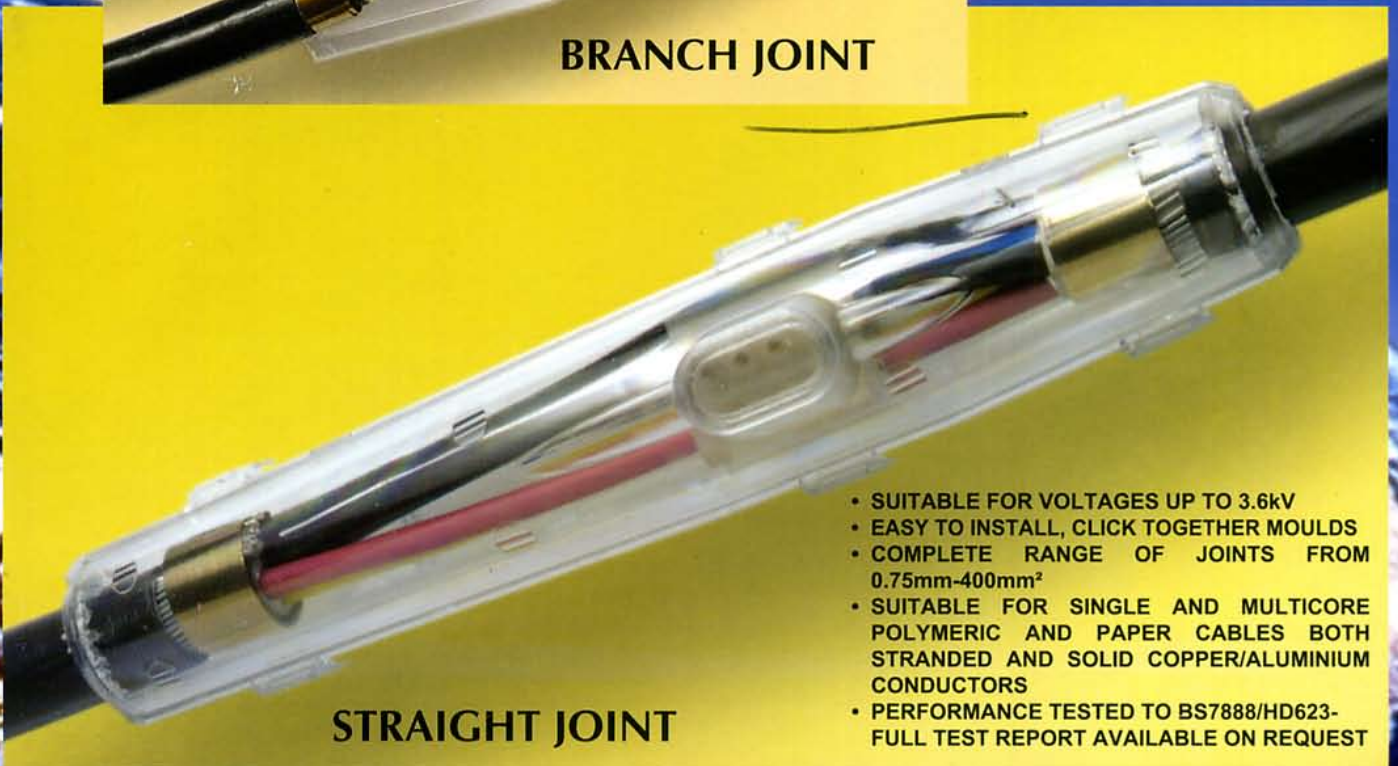
Power  
Telecommunications  
Multimedia  
Marine  
Cathodic Protection  
Mining

# A NEW WORLD OF JOINTING

Unique, clip-together  
Resin filled joints



**BRANCH JOINT**

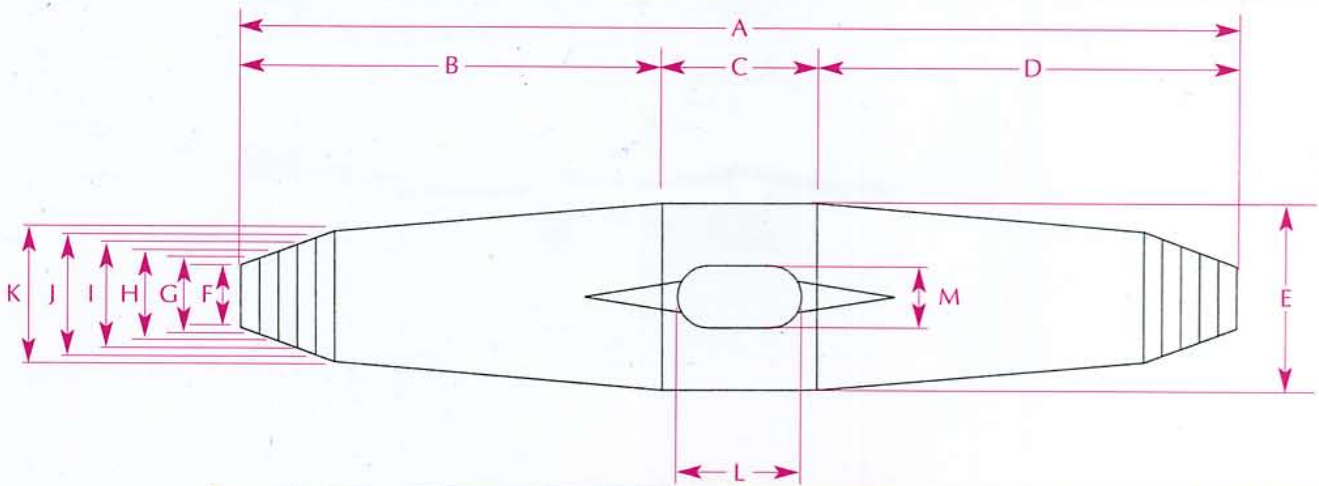


**STRAIGHT JOINT**

- SUITABLE FOR VOLTAGES UP TO 3.6kV
- EASY TO INSTALL, CLICK TOGETHER MOULDS
- COMPLETE RANGE OF JOINTS FROM 0.75mm-400mm<sup>2</sup>
- SUITABLE FOR SINGLE AND MULTICORE POLYMERIC AND PAPER CABLES BOTH STRANDED AND SOLID COPPER/ALUMINIUM CONDUCTORS
- PERFORMANCE TESTED TO BS7888/HD623-FULL TEST REPORT AVAILABLE ON REQUEST



# STRAIGHT JOINTS



## KEY FOR JOINT DIMENSIONS

ALL DIMENSIONS ARE INTERNAL.  
ALL MEASUREMENTS IN MILLIMETRES.

Joint	Resin Packs used	A	B	C	D	E	F	G	H	I	J	K	L	M
S4	RP0 (1 pack)	160	67.5	25	67.5	30	10	12	14	16	19	21	20	10
S10	RP1 (1 pack)	210	100	50	60	38	10	14	18	22	26	30	30	15
S16	RP2 (1 pack)	225	83	45	96	48	10	16	20	25	29	33	30	15
S25	RP3 (1 pack)	310	101	49	160	52	17	21	25	30	31	38	30	15
S50	RP4 (1 pack)	370	110	60	200	66	20	23	26	30	33	36	40	20
S120	RP5 (1 pack)	600	154	86	360	79	30	35	38	42	46	49	40	20
S240	RP6/RP4 (2/1 packs)	780	225	120	435	125	48	50	58	65	71	79	40	30
S400	RP6 (6 packs)	1240	255	300	685	157	55	67	79	91	91	103	60	40

## KIT SELECTION CHART FOR LV STRAIGHT JOINTS - ARMOURED CABLES

Cable Size (mm)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400
Kit Number																	
S4																	
S10																	
S16																	
S25																	
S50																	
S120																	
S240																	
S400																	

## KIT SELECTION CHART FOR LV STRAIGHT JOINTS - UNARMOURED CABLES

Cable Size (mm)	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400
Kit Number																	
S4																	
S10																	
S16																	
S25																	
S50																	
S120																	
S240																	
S400																	

## KIT SELECTION CHART FOR LV CONTROL CABLES

Kit Number	Cable Size	2 core	4 core	5 core	7 core	8 core	10 core	11 core	16 core	27 core	30 core	48 core
SCC4	1.5mm											
	2.5mm											
SCC8	1.5mm											
	2.5mm											
SCC16	1.5mm											
	2.5mm											
SCC24	1.5mm											
	2.5mm											

## KIT SELECTION CHART FOR MULTIPAIR TELEPHONE CABLES

Kit Number	Cable Size	2pair	5pair	10pair	15pair	25pair	40pair	50pair	100pair
ST5	0.9mm								
ST15	0.9mm								
ST25	0.9mm								
ST50	0.9mm								
S100	0.9mm								

Note: Overlap in cable sizes allows for unarmoured cables. All Dimensions are internal of the finished products.







## CHARACTERISTICS OF MIXED SYSTEM

COLOUR OF MIXED SYSTEM	Beige
DENSITY OF RESIN	1.47
DENSITY OF HARDENER	1.24
DENSITY OF MIXED SYSTEM	1.43
VISCOSITY OF RESIN	4800 - 5000cps spindle 6 @ 25°C
VISCOSITY OF HARDENER	180 - 240cps spindle 6 @ 25°C
VISCOSITY OF MIXED SYSTEM	3000 - 3300cps spindle 6 @ 25°C
POT LIFE	15 - 20 minutes 0.5 litre @ 25°C
GEL TIME	20 - 25 minutes 0.5 litre @ 25°C*
FULL CURE	48 hours @ 25°C
PEAK EXOTHERM	60 - 65°C (150g mass)
SHORE D HARDNESS AFTER 24 HOURS AT ROOM TEMPERATURE	A: 60 B: 55

\* Gel time is very much dependent upon ambient temperature and mixing time.

## PHYSICAL CHARACTERISTICS

TEAR STRENGTH	10 N/mm <sup>2</sup>
TENSILE STRENGTH	12 N/mm <sup>2</sup>
ULTIMATE ELONGATION	3%
VOLUME RESISTIVITY	10 <sup>10</sup> Ohms mm
SURFACE RESISTIVITY	10 <sup>10</sup> Ohms mm
THERMAL CONDUCTIVITY	0.9W/(m°C)
MAXIMUM CONTINUOUS OPERATING TEMPERATURE	80°C
DIELECTRIC STRENGTH	10KV/mm
WATER ABSORPTION RATE	10mg @ 25°C, 24 hours 1000mg @ 50°C, 42 days
ADHESIVE STRENGTH TO PVC	4 N/mm <sup>2</sup>
ADHESIVE STRENGTH TO XLPE	2 N/mm <sup>2</sup>
ADHESIVE STRENGTH TO LEAD	10 N/mm <sup>2</sup>
ADHESIVE STRENGTH TO ALUMINIUM	11 N/mm <sup>2</sup>
ADHESIVE STRENGTH TO COPPER	11 N/mm <sup>2</sup>

## RESIN PACK SIZES, WEIGHTS AND VOLUMES

Joining Twinpacks	RP0	RP1	RP2	RP3	RP4	RP5	RP6
Pack Size (grammes)	107	250	429	787	1430	2860	4290
Pack Size (litres)	0.075	0.175	0.3	0.55	1	2	3



The PU238 resin system has been specifically developed for the encapsulation of electronics, light electrical applications and cable joints. The system is available in a number of formats for delivery but the acclaimed twinpack system is the preferred method of supply for the cable joint kit. The resin and supply method offers the following benefits for the specifier and end user: -

- NO WASTAGE, EACH CABLE JOINT KIT COMES WITH A PRE-DETERMINED PACK SIZE OR COMBINATION OF PACKS TO SUIT THE SIZE OF CABLE JOINT INSTALLATION BEING UNDERTAKEN.
- NO MESS EASY TO USE 'MIX IN THE BAG' SYSTEM.
- PRE-FILLED PACKS ENSURE THE CORRECT MIX RATIO EACH TIME.
- TWINPACK SYSTEM REMOVES THE OPERATOR FROM THE RAW MATERIALS DURING THE MIXING PROCESS HELPING FROM THE HEALTH AND SAFETY POINT OF VIEW.

