

ZEMREX® CB COPPER BERYLLIUM FINGER STRIPS

ZEMREX CB Beryllium copper finger strips combine a mechanical spring like action similar to steel and electrical conductivity of copper. These features enable the strips to provide an excellent RF/EMI shield or earthing contact when used on closure doors, cabinets and boxes particularly where a frequent opening and closing operation is involved.

The spring like wiping action of ZEMREX CB provides a constant low resistant contact with low closure force. It does not provide an environmental seal. All parts can be supplied with Bright tin finish or Bright copper finish.

ZEMREX CB strips can be soft soldered or resistance welded without damage to the working surface. Fixture can be by edge mount or high tack adhesive tape which is automatically fitted and supplied with each front mounting part. For maximum contact and shielding performance the compression should be approximately 35% of original height.

152618 152619 1219146

CB MATERIAL SPECIFICATION

CHEMICAL COMPOSITION

BERYLLIUM COPPER ALLOYS 25	
BERYLLIUM	1.8 - 2.0%
COBALT PLUS NICKEL	0.20% MIN
COBALT PLUS NICKEL PLUS IRON	0.60% MAX
COPPER	BALANCE
TINNING THICKNESS	2.6 MICRONS

MECHANICAL AND ELECTRICAL PROPERTIES

TENSILE STRENGTH	185 - 215 KSI
YIELD STRENGTH	160 - 195 KSI
FATIGUE STRENGTH	42 - 47 10 ⁶ CYCLES KSI
HARDNESS	ROCKWELL C38 - 44
ELECTRICAL CONDUCTIVITY	22 - 28% IACS

PRESSURE SENSITIVE ADHESIVE TAPE

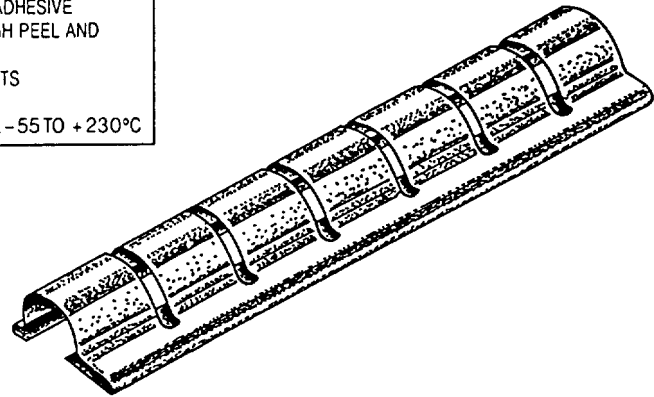
3M 9469 HIGH TACK ACRYLIC ADHESIVE
48 HOUR CURE TIME WITH HIGH PEEL AND SHEAR STRENGTH
HIGH RESISTANCE TO SOLVENTS
UNAFFECTED BY AGE
SERVICE TEMPERATURE RANGE -55 TO +230°C

LENGTH

Supplied from stock in standard lengths of 0.5 metres

CUSTOM PARTS

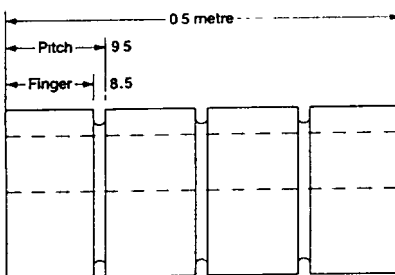
CB strips can be pre-cut to custom lengths. Other outlines can be designed and produced to customer specification.



CB SHIELDING EFFECTIVENESS db

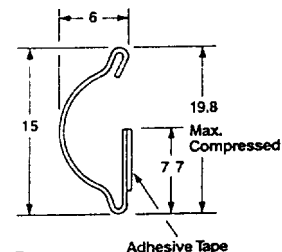
FREQ	FIELD	CB-1092
10KHz	H	63
100KHz	H	81
1MHz	H	>102
1MHz	E	>128
10MHz	E	>124
100MHz	E	130
400MHz	P	102
1GHz	P	88
10GHz	P	56

H = MAGNETIC E = ELECTRIC
P = PLANE WAVE



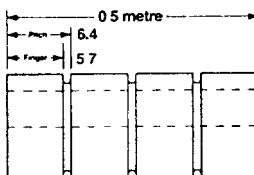
PART No CB-1436-C (COPPER)
OR
CB-1436-T (TINNED)

APPROXIMATE COMPRESSION FORCE PER 0.5 LINEAR METRE
HEIGHT COMPRESSED TO 5.0 mm - 18 KG
" " " 2.5 mm - 28 KG
" " " 1.2 mm - 65 KG



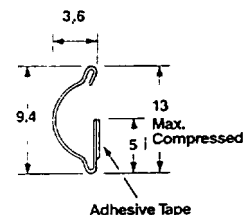
END VIEW

THICKNESS 0.101



PART No CB-1547-C (COPPER)
OR
CB-1547-T (TINNED)

APPROXIMATE COMPRESSION FORCE PER 0.5 LINEAR METRE
HEIGHT COMPRESSED TO 2.8 mm - 4 KG
" " " 1.8 mm - 17 KG
" " " 0.76 mm - 49 KG



END VIEW

THICKNESS 0.101