

3C Type Cable Joint Box



Overview

Cable junction box with interlocking crowns in GRP, steel frame (G.A.C.) and GRP lids. Usable area 800 x 800 mm.

Key Takeaways

A 3C cable joint box is designed to safely connect and insulate three-core power cables, available in heat shrink, cold shrink, resin-filled, or hybrid types for medium and high voltage applications.

Overview

A 3-core cable joint box is used to join three-core (3C) power cables, typically for medium voltage (MV) or high voltage (HV) systems. It ensures electrical insulation, mechanical protection, and environmental sealing for the cable joint, preventing moisture ingress, electrical faults, and mechanical damage. These boxes are suitable for copper or aluminium conductors and can be used with XLPE, EPR, or PILC insulated cables.

Types of 3-Core Cable Joint Boxes
Heat Shrink Joints Use heat-activated shrink tubes to insulate and seal the joint. Suitable for 16–300 sqmm 3-core XLPE cables at voltages up to 33kV. Can be used for armoured and unarmoured cables, including industrial, marine, and offshore applications.

Cold Shrink Joints

Use pre-stretched, elastic tubes that shrink onto the cable when the inner support is removed. Provide moisture-tight, flexible insulation and adapt to temperature variations. Often include mechanical connectors, stress control elements, and outer jackets for complete protection.

Resin-

Filled Joints

Contain two-part resin that encapsulates the joint, providing high impact strength and water resistance. Suitable for 11kV and similar MV applications, compatible with both XLPE and PILC cables. Include mechanical connectors and earth fault screening for safety.

Hybrid Joints

Combine cold shrink inner insulation with heat shrink or resin outer jackets. Offer enhanced stress control, flexibility, and environmental protection.

Key Features

Voltage Ratings: Typically 6.6kV, 11kV, 17.5kV, 24kV, and 33kV depending on cable type.

Conductor Compatibility: Copper or aluminium, stranded or solid. Installation

Environments: Underground, overhead, in ducts, or exposed to outdoor conditions.

Mechanical Protection: Includes connectors, stress control, and earth fault continuity modules.

Standards Compliance: Conforms to DIN VDE, BS6622, BS7870, IEC 61238, and other international standards.

Applications

Power distribution networks (urban and industrial) Substations and switchgear connections Marine and offshore power systems Cable repair and maintenance in underground or overhead installations A 3C cable joint box ensures reliable, safe, and long-lasting connections for three-core power cables, with the choice of type depending on voltage, cable insulation, environmental conditions, and installation requirements.

Article Content

Cable junction box, Cable terminal box

Cable junction box with interlocking crowns in GRP, steel frame (G.A.C.) and GRP lids. Usable area 800 x 800 mm. Standard height 600 mm (custom heights

CABLE JOINING & JUNCTION BOXES

The moulds consists of a series of torped shaped slimline mould halves, pressure injection moulded from high impact resistant transparent plastic material.

Medium voltage joints, terminations and cable accessories.

ent Kit CSCAK Series is a temporary or permanent solution for cable abandonment. The kits consist of 3MTM Cold Shrink End Caps, 3MTM Cold Shrink Pre-Stretched Tube.

CJH33.2403C Hybrid joint | CJH33 hybrid joint kits 3

Cold shrink hybrid joint for 3-core cables with Al/Cu conductor, polymeric insulation and Cu-wire screen. The kit contains components for three cable core.

LINK BOXES, SICAME LINK BOXES, 2 WAY, 4 WAY,

Sicame underground low voltage electricity distribution units (12, 18 and 24 Way) are suitable for combinations of single, 3 phase and street lighting cable

3M 92-AV630/3C 11kV 3 Core XLPE 240-400sqmm Cable Joints 3M

An LUL Approved Rail Cable Variant with flame retardant performance is available for the jointing of medium voltage 3 core power cables in trackside, underground, tunnel and station locations – this

Electrical Joints | TE Connectivity

Our heat shrink power cable joints and splices provide excellent electrical and mechanical characteristics, offering insulation, protection, and sealing for cables and accessories.

3M 92-AV642/3C 11kV 240-300sqmm Hazardous Area Cable Joints

The 3M 92-AV642-3/C Inline Joint kit is marked with supplier name, cable cross section ranges, voltage classes and cable type, storage conditions and manufacturing codes for product traceability.

RAYCHEM HIGH VOLTAGE CABLE ACCESSORIES

Our fully equipped tool box contains not only the tools for preparation of the cable but also components required for a safe and efficient installation on-site.

Joints and Terminations

Suitable for splicing and terminating single or three-core polymeric cables up to 33kV, for both armoured and non-armoured types. Compatible with Straight

Cable junction box, Cable terminal box

Find your cable junction box easily amongst the 90 products from the leading brands (Ebo Systems, TAKACHI, 4B Braime Components, ...) on DirectIndustry, the

Cable Jointing Kit

Providing you the best range of cable jointing kit, 3m 33kv cable jointing kit, raychem cable jointing kits, raychem straight through jointing kits, straight through jointing

Cable Jointing Kits

Trader - Retailer of Cable Jointing Kits - Heat Shrink Type Straight Thru Joint, 3M Cable Jointing Kit, Electrical Cable Joints and End Termination Kits offered by Inka Enterprise, Ahmedabad, Gujarat.

3M 11kV Cold Shrink Three-Core Straight Joint Kits

3M Cold Shrink QS1000 11kV straight joints are suitable for the jointing of all common three-core (3core) polymeric insulated (XLPE, EPR, PE) SWA armoured cables up to 11kV. The 3M joint base kit

Ht Heat Shrink Type Straight Through Joint Kit 3m

HT Heat Shrink Type Straight Through Joint (Splice) suitable for 11 kV 3Core 95 Sq.MM Power Cable. Kit contains Crimping Type Aluminium Ferrule for Conductor Connection. 3M Heat

ELECTRICAL CABLES AND JOINTING

INTRODUCTION Typical methods and procedures employed to create safe S.W.A. cable joints on low voltage cables are described and demonstrated in the following programmes: LVJ-1 Resin Cast. LVJ

Fiber Optic Splice Enclosure, Fiber Optic Joint Enclosure Box

Fiber splice enclosure box is used for aerial, strand-mount FTTH "tap" locations where drop cables are spliced to distribution cables. There are mainly two types of fiber optic cable joint box available in

Cable Junction Boxes: 8 Types, Tech Specs & Installation

Explore 8 types of cable junction boxes, their tech specs, installation tips, and maintenance. Get expert insights on selection, common faults, and

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://ensaa.es>

Technical inquiry: <https://ensaa.es/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

