What item is used for cable trays to carry cables

Overview

In the of buildings, a cable tray system is used to support insulated used for power distribution, control, and communication. Cable trays are used as an alternative to open wiring or system. In the of buildings, a cable tray system is used to support insulated used for power distribution, control, and communication. Cable trays are used as an alternative to open wiring or systems, and are commonly used for cable management in commercial and industrial construction. They are especially useful in situations where changes to a wiring system are anticipated, since new cables can be installed by laying them in the tray, instead of pulling them through a pipe. According to the standard of the, a cable tray is a unit or assembly of units or sections and associated fittings forming a rigid structural system used to securely fasten or support cables and raceways. Several types of tray are used in different applications. A solid-bottom tray provides the maximum protection to cables, but requires cutting the tray or using fittings to enter or exit cables. A deep, solid enclosure for cables is called a cable channel or cable trough. A ventilated tray has openings in the bottom of the tray, allowing some air circulation around the cables, water drainage, and allowing some dust to fall

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through the tray. Small cables may exit the tray through the ventilation openings, which may be either slots or holes punched in the bottom. A ladder tray has the cables supported by a traverse bar, similarly to the rungs of a ladder, at regular intervals on the order of 4 to 12 inches (100 to 300 mm). Ladder and ventilated trays may have solid covers to protect cables from falling objects, dust, and water. Tray covers for use outdoors or in dusty locations may have a peaked shape to shed debris including dust, ice or snow. Lighter cable trays are more appropriate in situations where a great number of small cables are used, such as for telephone or computer network cables. These trays may be made of wire mesh, called "cable basket", or be designed in the form of a single central spine (rail) with ribs to support the cable on either side. Channel Tray provides an economical support for cable drops and branch cable runs from the backbone cable tray system. Channel cable tray is used for installations with limited numbers of tray cable when conduit is undesirable. Large power cables laid in the tray may require support blocks to maintain spacing between conductors, to prevent overheating of the wires. Smaller cables may be laid unsecured in horizontal trays, or secured with to the bottom of vertically mounted trays. To maintain support of cables at change. Common cable trays are made of galvanized,, aluminum, or glass-fiber reinforced plastic. The material for a given application is chosen based on where it will be used. Galvanized tray may be made of pre-galvanized steel sheet fabricated into tray, or may be hot-dip galvanized after fabrication. When galvanized tray is cut to length in the field, usually the cut surface will be painted with a zinc-rich compound to protect the metal from corrosion. Combustible cable jackets may catch on fire and cable fires can thus spread along a cable tray within a structure. This is easily prevented through the use of fire-retardant cable jackets, or coatings applied to installed cables. Heavy coatings or long fire-stops may require adjustment of the cable current ratings, since such fireproofing measures may reduce the heat dissipation of installed cables. Regular housecleaning is important for safety, as cable trays are often installed in hard to reach places. Combustible dust and clutter may accumulate if the trays are not routinely checked and kept clean. Plastic and fibreglass reinforced plastic cable trays are combustible; the effect is mitigated through the use of fire retardants or fireproofing. Ferrous cable trays expand with the increasing heat from accidental fire. This has been proven by the German Otto-Graf-Institut Test Report III.1-80999/Tei/tei "Supplementary Test On The Topic Of Mechanical Force Acting On Cable Penetration Firestop Systems During The Fire Test", dated 23 October 1984, to dislodge "soft", such as those made of fibrous insulatio.

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	Cable trays must be adequately supported to carry the weight of cables plus any additional loads (such as snow or ice for outdoor installations). Use supports (wall brackets, trapeze ...
	Depending on the application, carriers can hold everything from tray cable and power limited tray cable (PLTC) to instrumentation wire and metal-clad armored cable. Trays also hold data ...
	Cable trays support insulated electrical cables in industrial and commercial settings. There are several types of cable trays, including ladder, perforated, solid bottom, basket, and ...
	A cable tray system is a unit assembly of sections and fittings that forms a rigid structural system used to securely fasten or support cables and ...
	Cable tray systems are the perfect solution for running large quantities of power or data cables overhead or under-floor. Also known as baskets, trunking, or cable ladders, these systems are designed to ...

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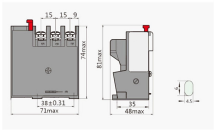
A cable tray system is a unit assembly of sections and fittings that forms a rigid structural system used to securely fasten or support cables and wiring. Think of it as a sophisticated “highway” ...

Cable tray systems are engineered support structures designed to route, support, and protect insulated electrical cables used for power distribution, control, instrumentation, and ...



The main components of a cable tray system include tray sections, fittings, supports, and accessories. Together, these parts form a complete cable management system used to support, ...

According to the National Electrical Code standard of the United States, a cable tray is a unit or assembly of units or sections and associated fittings forming a rigid structural system used to ...

Cables should be fastened to the cable ladder and/or cable tray using cable cleats or cable ties to prevent movement of the cables under normal use and during fault conditions (Figures 25a and 25b).

A strip of suitable material designed for installation in the cable tray to separate certain types of cables; such as cables of different voltages or different circuits.

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