

Advantages of the TC-ER Cable

1 An Overview of TC (Tray Cable) and TC-ER (Tray Cable for Exposed Runs)

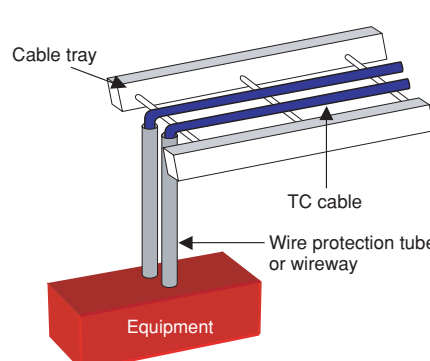
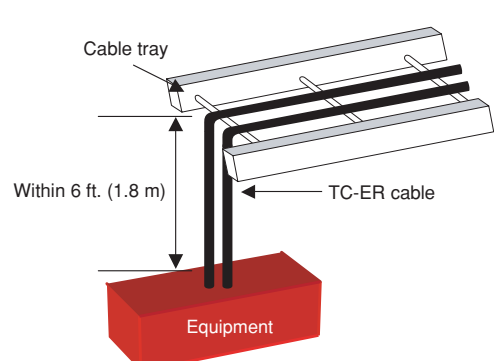
The following is a rough summary of the TC cable and the TC-ER cable.

Cable type	Category	概要
TC	Cable defined in Article 336 of NFPA 70 [※]	Power and control tray cable
TC-ER		TC cable with an added “-ER” option. For the addition of “-ER,” strength to pass the mechanical strength test for metal-armored cables (MC) is required.

※ NFPA 70: The American National Electrical Code, in which requirements for electric installations in buildings and structures in the US are defined.

2 Wiring method for TC-ER cables and its advantages

In the case of TC cables, it is necessary to protect the cables using wireways (raceways), wire protection tubes (conduits), or other methods, when providing wiring from a cable tray to electrical equipment or other installations (Fig. 1). On the other hand, wiring with TC-ER cables does not require such protection (Fig. 2).

 <p>Fig. 1 Wiring with TC cables</p>	 <p>Fig. 2 Wiring with TC-ER cables</p>
<p>• Wiring with TC cables from a cable tray requires protection with wire protection tubes or by other methods.</p>	<p>• Wiring with TC-ER cables from a cable tray does not require protection with wire protection tubes or by other methods. However, each component needs to be supported (fixed) so that the distance between the cable tray and the equipment is within 6 feet (1.8 meters).</p>