

Conduit, Ducting and Fittings

Electrical conduit is an electrical piping system used for protection and routing of electrical wiring. Electrical conduit is typically made of either metal or plastic. It is provided in either a rigid or flexible/corrugated formats and can be run either above or below ground.

Conduit HFT

HFT Conduit shall:

- Comply with AS1345 (Identification of the Contents of Pipes, Conduits and Ducts)
- Comply with AS/NZS 2053 (Conduits and fittings for Electrical Installations)
- Comply with AS/ACIF S008 (Requirements for Customer Cabling Products)
- Be halogen free. Unlike conventional PVC, the special plastic alloy used to manufacture HFT conduits and fittings must contain no halogens (chlorine, bromine, fluorine, iodine) and therefore no toxic or corrosive gases are to be released in the event of a fire
- Be fire resistant. Being fire resistant ensures HFT conduits/fittings will self-extinguish within 10 seconds with the added benefit of non-dripping
- Be temperature stable. HFT has an operational temperature range between -40C to +140C, which is greater than similar PVC units
- Where they are likely to be subjected to severe mechanical abuse, additional protection must be taken.

Flexible Corrugated Conduits

All Flexible Corrugated Conduits shall:

- Comply with AS 1345 (Identification of the Contents of Pipes, Conduits and Ducts)
- Comply with AS/NZS 2053 (Conduits and Fittings for Electrical Installations)
- Comply with AS/ACIF S008 (Requirements for Customer Cabling Products)
- Have an operative temperature range of -15°C to +65°C. If temperatures are between -40C to +140C, HFT conduit and fittings should be used
- Have resistance to most common corroding agents, including the majority of oils and fats, inorganic acids, alkalis and salts
- When installing rigid non-metallic conduit, support saddles or clips should be located at intervals of not more than one metre (as per AS/NZS 3000)
- Where they are likely to be subjected to severe mechanical abuse, additional protection must be taken
- Where possible (medium duty applications) utilise Clipsal 9000CM Series Turbo flexible corrugated conduit. Installation should comply with AS/NZS3000 wiring rules
- Where possible (heavy duty applications) utilise Clipsal 9000HD Series flexible corrugated conduit. Install should comply with AS/NZS3000 wiring rules
- Where possible (data and communications applications) utilise Clipsal C9000TCM Series flexible corrugated conduit. Install should comply with AS/NZS3000 wiring rules