Unit 114: Electrotechnical systems and equipment

# Worksheet 7: Know defined wiring systems, equipment and components used in electrical installations 2 (tutor)

1. State the type of insulation, their use and how they would be installed for the following cables.

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| **Cable type** | **Insulation** | **Use** |
| Thermoplastic PVC singles | PVC | In conduit and trunking |
| Thermoplastic multicore PVC (twin/three-core and cpc) | PVC insulation  PVC sheath  Also XLPE | Domestic and commercial with mechanical protection |
| Thermoplastic mineral insulated | Magnesium oxide  PVC oversheath | Fire alarms  Petrol filling stations, etc. |
| Thermosetting fire-retardant cables | Silicone rubber  Aluminium screen | Fire alarms, where  a fire-retardant  cable is needed |
| Thermoplastic steel wire armoured (SWA) | PVC or XLPE  Steel armour | Underground and  industrial,  commercial,  agricultural, etc. |
| Fibre optic | Glass fibres | Television,  telephone and  computer data  transmission |