**Module 3 Activity Worksheet 22**

1. Draw connecting lines to match the correct cable support system with its description.

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| **Support System** |  | **Description** |
| Conduit |  | Open structure made of metal or plastic used to support cables. |
| Cable Tray |  | Metal channels with rungs used to support heavy cables. |
| Cable Ladder |  | Rigid metal or plastic pipe used to protect and route electrical wiring. |

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| 1. A cable support system will be used to support 10 cables, each weighing 0.5 kg/m, and measuring 20 metres in length. What is the minimum load capacity required for the cable support system? |

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| 1. Why is it important to consider the material of the cable support system when selecting a support system? |

**Fire-rated penetration seals**

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| Find out what is meant by a fire-rated penetration seal. |

Some of the common materials used for fire-rated penetration seals are shown below. Briefly describe how each material works and how it helps to prevent the spread of fire and smoke.

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| **Material** | **Description** |
| Intumescent sealant |  |
| Firestop mortar |  |
| Firestop pillows |  |
| Firestop collars |  |