FAQs – Spitfire Data and Comms

1. *What applications can the Spitfire® solution be used for?*

   Cameras, telemetry, monitoring, analytics, diagnostics, remote operations, Wi-Fi hotspots, 2-way communications, data and video transfer

2. *What is the data transfer speed of the Spitfire®?*

   200 Mbps PHY maximum link capacity

3. *What's the recommended cable length for Spitfire®?*

   Recommended length is less than 500 metres.

4. *What is the difference between a Spitfire® and a Super Spitfire?*

   Spitfire® is the modem fitted on a machine to convert input data for transmission over a powerline cable. On the receiving end, another Spitfire converts the signal back and connects through a network switch to the LAN. This allows it to transmit data between equipment and the surface.

   The Super Spitfire is a repeater which can extend the range of the Spitfire® powerline network

5. *Does the Wingman need to be on the same layer (layer2) as the Spitfire® devices?*

   YES

6. *Do I need to twist the Red Pair together on the Capacitive Coupler?*

   YES

7. *Do the Capacitive Coupler wires need to be on the same phases on all equipment?*

   YES

8. *Do I need a Wingman?*

   NAUTITECH® recommends using the Wingman to set and monitor your Spitfire® network and view diagnostics. It is a tool to manage the configuration of network.

9. *Do I need a Wingman in every DCB or just one on the surface?*

   NAUTITECH® recommends having a Wingman at every DCB to assist with fault finding if the mine is using a Super Spitfire repeater.