



ÖPPEN/UNCLASSIFIED

Datum  
2018-11-15

Bilaga nr till FMV Dokumentbeteckning  
FMV Dokumentbeteckning  
Ansv område/Enhet  
FMV AL LED

Utgåva  
1.0

Klassificeringsnr

Sida  
1 (1)

## Certificate of conformity

Certificate of conformity regarding the new FALCON™ technology developed by Micropol Fiberoptic AB.

The Swedish Armed Forces are currently using a tactical fiber optical cable system based on expanded beam technology, called FOKS. The FOKS system consists of two, four and twelve fiber channel tactical cable length together with different support products.

The FOKS system are since 2012 based on connectors from Tyco Electronics. However, the demands from FMV regarding even lower insertion loss and higher reflection attenuations demanded for a new expanded beam lens technology. Today this lens technology is referred to as FALCON™.

A technical specification defined by FMV is certifying the performance of the FOKS system. This technical specification is quite more stringent than the US standard, when it comes to ruggedized handling of the tactical fiber optical cable system. In addition, the FOKS system involving the FALCON™ technology shows performance values that are better than specification when it comes to for example attenuation values and attenuations of reflections.

It is very important for FMV to secure the compatibility between the new FALCON™ products and the older products included in the FOKS system. Considerable test and verifications were made to evaluate the performance to other products in the FOKS system with results conforming this compatibility.

FMV have certified the use of FALCON™ technology in the FOKS system.

Swedish Defence Material Administration  
FMV AL/Led  
Box 13400  
580 13 Linköping  
Sweden