

Deployable Network Mission Module (DNMM)

– STANDARD VERSION –

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The Deployable Network Mission Module (DNMM) is a cable installation kit adapted to the requirements of modern IT systems, which can be used in both on-vehicle and off-vehicle operations. It provides the necessary materials for the internal cabling of command posts and for connecting transmission systems and external networks up to 2 km in length to the core network (MobKommSysBw/ITSysBw). In addition, it provides all materials for field cable as well as for field repairs and attenuation testing of fiber-optic and Ethernet cables.

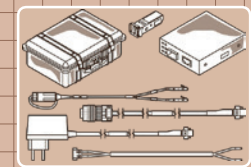
Tactical Field Repair Kit

The repair kit is used for battle damage repair of the steel-armored fiber-optic field cable with Fibriok mechanical splices.

Backpack

For laying fiber-optic field cable on foot in the field.

Fiber-optic media converter with SFPT / Mini-GBICs for SM and MM
Used to connect Ethernet to fiber-optic field cable, even at extreme temperatures.



Crane with swivel arm with spur gear pulley
For lifting heavy loads.

Cable reel
The cable stand can be used for laying cables from the vehicle to install long cable runs quickly.

Network tester LAN SMART SignalTEK NT
Used to verify the correct installation of copper and fiber-optic cables, as well as to perform maintenance measurements of active and passive infrastructures.

Specifications

Power supply:	400/230 V DC input voltage 230 V AC and 24 V DC internal power supply, integrated primary power supply (UPS)
Crane:	Swivel range 270°, load capacity 250 kg, lifting height 3 m
Cabling equipment:	10 cable reels each with 200 m of SMMM fiber optic field cable 2 cable reels each with 1000 m of SMMM fiber optic field cable 1000 m of CAT-6 cable on a cable reel with 300 RJ45 connectors
Connectors:	MM ST-ST, ST-SC, SC-SC SM ST-ST, ST-SC, SC-SC
Adapters:	MM HMA - ST, SC, LC SM HMA - ST, SC, LC
Measurement/Testing Equipment and Maintenance:	Fujikura 90S splicer Exfo OTDR Maxtester LED tester, fiber optic (BRUMIL 840) LAN SMART network tester SignalTEK NT 6 SE Fiber optic media converters Tactical field repair kit with mechanical splice
Dimensions L/W/H:	4250 x 2200 x 2057 mm
Total weight:	2928 kg

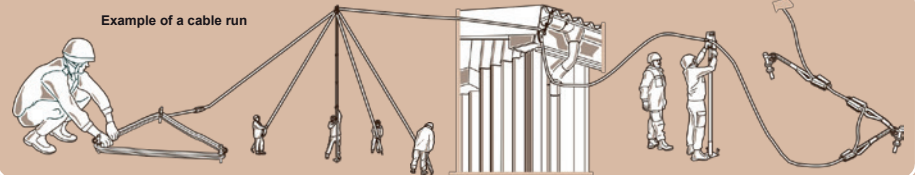
6 m telescopic mast
For crossing traffic routes with up to six fiber-optic field cables.

Telescopic poles 6 m
For installation in above-ground construction, e.g., in forested areas.

Fusion splicer
Used for thermal splicing of various optical fibers, single-mode (SM) or multimode (MM).

OTDR Maxtester
For measuring attenuation, reflections, or losses within a fiber-optic network.

Example of a cable run



The combat-proven Deployable Network Mission Module (DNMM) provides rapidly deployable and reliable IT infrastructure in all climate zones and under all operational conditions.

Tactical plug-in solution for digital infrastructure

The capability profile represents an ideal solution for multinational military operations, exercises, crisis response scenarios, field camps, mobile command posts and degraded or destroyed infrastructure. Due to its compatibility with civilian and commercial standards, the DNMM is equally well-suited to support government agencies and organizations with security responsibilities.

The implementation and quality control of high-performance CAT 6 Ethernet network connections (copper cabling up to 100 m in length) as well as fiber-optic cabling (up to 2 km in length) are aligned with current industrial standards. The supplied OTDR test equipment and fusion splicers are DTAG-certified. This

ensures that modern military or humanitarian operations can be interconnected rapidly, reliably, securely and efficiently and remain fully operational at all times.

To support these tasks, an extensive range of construction materials and tools for field cabling is provided. Telescopic masts and cable protection ramps are available to enable rapid crossing of roadways.

Through the use of ISO corner fittings, the equipment set is suitable for flexible transport on various carrier vehicles. The precisely fitted shelving and storage system ensures the secure transport of the entire equipment package with no further need for additional load securing. When the equipment set is deployed off-vehicle, both side panels can be folded up to provide rapid access to all materials.

The DNMM is much more than a technical module. It is an operative multiplier that delivers availability, security and control in every operational environment.

- Operational in less than 15 minutes
- Proven during exercises and operational deployments
- Compatible with NATO structures and civilian commercial standards



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Typical Operational Scenarios

- **Overseas Deployments & Stabilization Missions**
Support in establishing Headquarter networks and Tactical Operation Centers at strategic levels
- **Support to mobile command structures**
Establishing and operation of temporary Tactical Command Post networks
- **NATO & Multinational Exercises**
Basis for interoperable C3 / C4 core architectures
- **Disaster Relief & Civil-Military Emergency Communications**
Support to public safety authorities and organizations through the rapid deployment of digital infrastructure in humanitarian crisis scenarios
- **Mobile Command Support**
Provision of high-performance network connections for digital land-based operations and mobile command posts
- **Cyber Defence**
Provision of low-signature and operationally secure data links within operational theaters
- **Technology Evaluation & Innovation Missions**
Employment in the testing of new command and communication systems - particularly during the introduction of emerging technologies (5th generation mobile networks, satellite-based IoT-systems, drone integration, etc.)

Core Capabilities

- **Rapid Network Expansion**
 - Installation of complete fiber-optic connections
 - Splicing, testing and fault diagnostics
 - Immediate and easy integration into existing infrastructure
- **Secure Infrastructure**
 - Use of steel-armored fiber-optic cables
 - Enhanced protection against sabotage
 - Reduced susceptibility to eavesdropping
- **Resilience against Electronic Warfare**
 - Fiber-optic-based digital infrastructure is resistant to electronic warfare measures
 - Reduced load on the electromagnetic spectrum by eliminating the need of radio communications
 - Stable basis for C3 / C4 systems even in contested environments
- **Fault Analysis, Maintenance and Repair**
 - OTDR measurement equipment for precise fault localization
 - Fusion splicing equipment for DTAG-certified fiber-connections
 - Tools and equipment for rapid battle damage repair (BDR) provided

Operational Advantages

- **Speed**
 - Operational in less than 15 minutes
 - Standardized procedures and a well-coordinated team
 - No prior coordination required
- **Security**
 - Resilient against electronic warfare
 - Enhanced protection of command-and-control capabilities
 - Protection against rodent damage to cables
- **Flexibility**
 - Modular, combinable service capabilities
 - Scalable from small teams up to large units
 - Deployable in urban, rural and hostile environments
- **NATO-Compatibility**
 - Aligned with NATO standards
 - Compatible with multinational structures
 - Support for exercises and real-world missions

Personnel

- 1 highly qualified IT Administrator (Wide Area Network) serving as team leader
- Rapid situational assessment and autonomous on-site mission management
- 2 - 5 soldiers with basic training level assigned as cable installation team
- Impact of operational experience and tactical exercise scenarios





Technical Specifications

Power Supply:	400 V three-phase current, input voltage 230 V AC and 24 V DC (via truck alternator), integrated batteries / UPS
Crane:	270° swivel range, lifting capacity 250 kg, lifting height 3 m
Telescopic Masts:	Height of 6 m for crossing traffic routes with up to six fiber-optic field cables
Cable Equipment:	10 cable reels each with 200 m fiber-optic field cable SM and MM, 2 cable reels each with 1000 m fiber-optic field cable SM and MM, 1000 m CAT-6 cable on cable reel, RJ45 connectors for crimping
Fiber-Optic hybrid connectors:	SC-ST, SC-SC, ST-ST, LC-LC
Adapter Cables:	HMA-ST, HMA-LC, HMA-SC, ST-ST, ST-SC, (as of MM and SM)
Equipment:	Test and repair equipment, hand tools
Dimensions (L/W/H):	L/B/H: 4250 x 2200 x 2057 mm
Gross Weight:	2928 kg
Operational Readiness:	< 15 Min.
Operating Duration:	> 24 h self-sufficient (without external power supply)
Environmental Resistance:	-40 to +49 °C
Compatibility:	Compatible with NATO structures and civilian commercial standards

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