

# HELICOPTER DEPLANING ROPE ASSEMBLY

An essential element of tactical helicopter operations is the ability to rapidly deploy troops. However, it is not always possible or desirable for assault helicopters to land in order to deploy personnel. The Airborne Systems deplaning rope assemblies Mk 2 and Mk 3 enable fully equipped troops to rapidly deplane from hovering helicopters using a 45mm diameter rope attached to an anchorage point on the aircraft.



Deplaning rope assembly MK2

The deplaning rope Assembly comprises a black or olive drab, bonded nylon rope woven into an 8-plait construction with a diameter of approximately 45 mm. Once attached to the helicopter anchorage point, the rope is dropped and allowed to hang free and the troops climb down. The rope has a safe working load of 584 kg (1287 lb).

The free end of the rope is whipped to prevent fraying. The other end of the rope is secured into a cylindrical casing by a bolted cross-pin. The end of the casing is closed by an end cap. In the centre of the end cap is an eye-bolt which carries the attachment fitting. (see pictures).



Deplaning rope assembly Mk3 with Quick Release Mechanism

The deplaning rope assembly Mk2 is attached directly to the helicopter anchorage point by an integral ring and sprung double action snaphook.

The deplaning rope assembly Mk3 is attached to the helicopter anchorage point via Airborne Systems Quick Release Mechanism (QRM). The QRM provides a means of rapid detachment of the deplaning rope from the helicopter, even under tension, in the event of an emergency. It has been designed to ensure simple but safe operation and has a minimal number of moving parts for reliability and ease of maintenance. The QRM is available with a 15mm (0.6in) or 17.75mm (0.7in) wide attachment hole.

The Airborne Systems Family of Brands  
**GO Parachutes / Irvin Aerospace / Para-Flite / Aircraft Materials (AML)**

**AIRBORNE SYSTEMS**  
 Dedicated To Preserving The Safety  
 Of The Mission And Its People

# HELICOPTER DEPLANING ROPE ASSEMBLY

The helicopter deplaning Rope Assemblies can be supplied with rope lengths and attachment fittings to suit specific helicopter types, operating procedures or special customer requirements.

TECHNICAL SPECIFICATION			
Assembly	Rope Length	Part No.	NATO Stock Number
Deplaning rope assembly - Mk 2	12 m (40 ft)	AML 15018 (Black) IGQ 02452 (Green)	4020-99-774-6276 1670-99-725-0899
	15 m (50 ft)	AML 15020 (Black) IGQ 02454 (Green)	4020-99-774-6277 1670-99-875-7354
	18 m (60 ft)	AML 13877 (Black) IGQ 02455 (Green)	4020-99-774-91 50 1670-99-987-8926
	27 m (90 ft)	AML 13878 (Black) IGQ 02456 (Green)	4020-99-774-6275 1670-99-275-5265
	36 m (120 ft)	AML 15013 (Black) IGQ 02457 (Green)	4020-99-335-4175 1670-99-253-4578
Deplaning rope assembly - Mk 3	12 m (40 ft)	AML 16601 (Black) IGQ 02458 (Green)	4020-99-839-9980 1670-99-940-4514
	15 m (50 ft)	AML 16602 (Black) IGQ 02459 (Green)	4020-99-839-9981 1670-99-347-5379
	18 m (60 ft)	AML 16603 (Black) IGQ 02460 (Green)	4020-99-839-9982 1670-99-213-1955
	27 m (90 ft)	AML 16604 (Black) IGQ 02461 (Green)	4020-99-839-9983 1670-99-371-1729
	36 m (120 ft)	AML 17108 (Black) IGQ 02462 (Green)	Not yet codified 1670-99-148-0613
Quick Release Mechanism (QRM) with 15 mm hole in mounting block		AML 16550	1670-99-160-4205
Quick Release Mechanism (QRM) with 17.75 mm hole in mounting block		AML 17050	1670-99-870-0604