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HARSH ENVIRONMENTS

FO CONNECTIVITY

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MICROPOL

EXPANDED BEAM

MILITARY & INDUSTRIAL ASSEMBLIES

2-4 CH, MIL-M83526/20&21

Expanded Beam Military & Industrial Assemblies - 2/4 Channels

MIL-M83526/20&21

HMA (Hermaphroditic Multi-Channel Assembly) connectors the Expanded Beam are fiber optic connectors designed for harsh environments.

The PROCON connectors have the best optical performance on the market. This is achieved with Micropol's lens technology, state of the art production and alignment process.

The PROCON Junior expanded beam connectors—JR Plug, JR D-hole, and JR Square—are the only PROCON Junior-Size Connectors Compliant with MIL-M83526/20 & MIL-M83526/21 junior-sized connectors in the world offering 1–4 fiber configurations, with approved beam sizes in accordance with MIL-M83526/20(Plug) and MIL-M83526/21(Receptacle) standards.

PROCON JR Plug (PJR-P)	PROCON JR Receptacle D-hole (PJR-D)	PROCON JR Receptacle Square (PJR-S)

Features

- Insertion loss <1,5 dB
- Temperature range 57°C – +85°C
- Hermaphroditic interconnection
- Rugged connector design
- Keyed boot for blind mating
- No adaptors needed
- Easy clean, no special tools

Compatibility

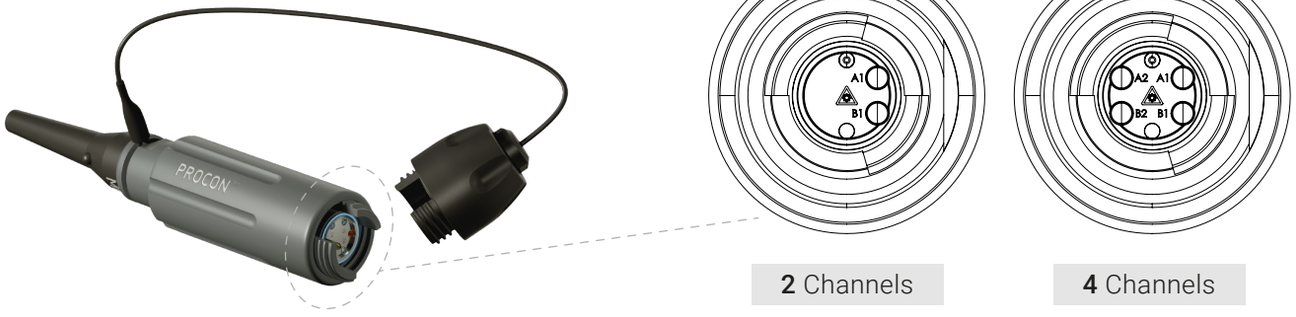
- FIBRECO Junior
- QPC Q - Mini
- TE PRO-BEAM - Junior
- Amphenol TacBeam
- Stratos HMA

Mechanical and Environmental Specifications

Coupling type	Hermaphroditic
Material	Hard anodized aluminum (MIL-A-8625 TYPE III CLASS 2)
Durability	3000 mating cycles (MIL-DTL-83526)
Free fall	500 falls from 1,2 meters height (IEC 68-2-32-P II)
Vibration	5-500Hz, 0,75mm amplitude at 10G
Shaking	390 m/S numbers of shakes 3x4000

Shock pulse length	11ms, half sine at 35g, axis: 3 (x, y, z)
Operating temperature	-57°C to +85°C
Water immersion	IP67
Air pressure	<25kPa -55°C during 4h
Corrosion resistance	500h salt spray
Flammability	DOD-STD-1678, method 5010
Compliant	ROHS & REACH

Channel Options on Connectors



2 Channels

4 Channels

Patchcord and Hybrid Assemblies

PJR-P to PJR-P	
PJR-P to PJR-D	
PJR-P to LC	
PJR-D to LC	

Order Codes								
TAC-ASSY-	PC-	04CH-	A1-	**PJR-P**	/	**PJR-P**	-XXXM	Patch Assembly
		02CH	A1	**PJR-P**		**PJR-P**		
		04CH	M3	**PJR-D**		**PJR-D**		
				PJR-S		**PJR-S**		
						LC-DX		
						LC-SX		

On Reel Patchcord Assemblies

SCR1-250 (up to 250m)	SCR2-500 (up to 500m)	SCR3-MP-HT-385 (up to 500m)

Order Codes								
TAC-ASSY-	SCR1-	04CH-	A1-	**PJR-P**	/	**PJR-P**	-XXXM	On Reel Assembly
	SCR1	02CH	A1	**PJR-P**		**PJR-P**		
	SCR2	04CH	M3	**PJR-D**		**PJR-D**		
	SCR3			**PJR-S**		**PJR-S**		
				LC-DX		**LC-DX**		
				LC-SX		**LC-SX**		

Harsh Environment On Reel Cable Assemblies

MT02698
SCR1-250 Handheld Cable Reel (With Stand)
Suitable for 5.6mm Diamemeter cables up to 250 meters

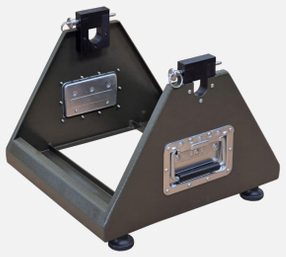
MT19156
SCR2-500 Universal Cable Reel
Suitable for 5.6mm Diamemeter cables up to 500 meters

MT19418
SCR3-MP-HT-385 Handheld Cable Reel (With Stand)
Suitable for 5.6mm Diamemeter cables up to 500 meters

MT19416-1
SSF2-500 Cable Reeling/Unreeling Stand Frame

MT19415
SBF1-500 Backpack Reel Carrier Frame,
Suitable for SCR2-500 Cable Reels

MT19416
SSF1-500 Cable Reeling/Unreeling Stand Frame
Suitable for SCR2-500 Cable Reels



MT19417
SCR2 Cable Reel Winding Handle
Suitable for SCR2-500 Cable Reels

Portable Field Deployable Fiber Optic Cable Reel

This tactical portable cable reel is made of metal and has an embedded stand, a crank and a brake screw. The portable cable reel is suitable for fiber optic and copper cables and it is designed for field, military and tactical applications, where quick cable deployment is essential.

Features

- Made of Steel that is both light and strong.
- Stackable Frame Design
- Double flange for easy access to the inner end
- Foldable Crank handle
- Central brake knob to prevent unwanted rotation
- Integrated carrying and unwinding stand
- Stand protection feet to prevent damage from the surface

Reel Capacity

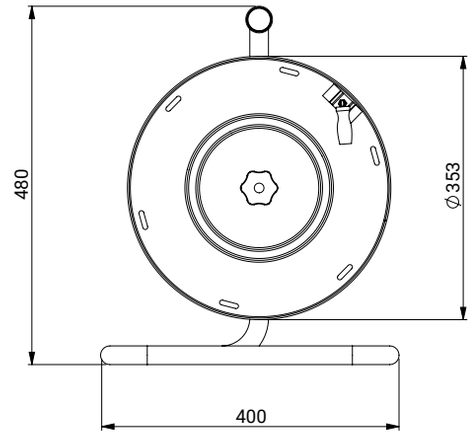
Cable Capacity	Cable Diameter
200 m	5.6 mm
300 m	4.8 mm

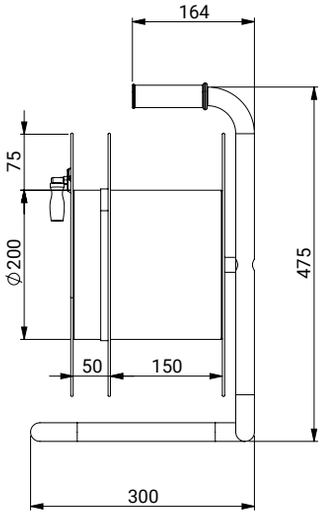
Reel Specifications

Model Number	Reel Weight
MT02698	12 kg

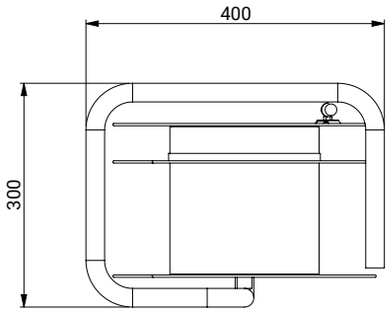
Dimensions

Unit: mm





Top View

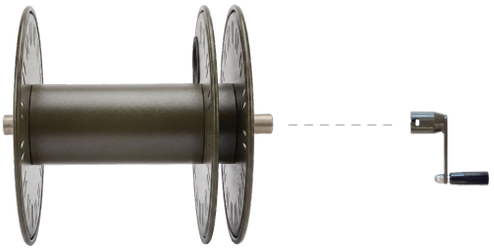


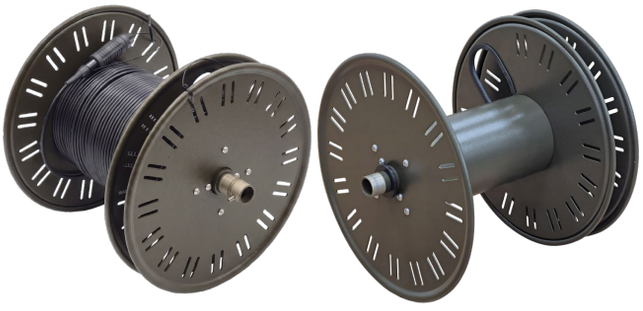
SCR2-500 Cable Reel

SCR2-500 Cable Reel is a professional reel system developed specifically for military and industrial applications, enabling efficient transport and rapid field deployment of fiber optic cables.

Its lightweight structure and ergonomic design ensure easy handling and improved operational efficiency when using reel-based cable systems. The robust construction provides reliable performance under harsh field conditions.

The system is suitable for use in various applications, including mobile emergency telecommunication stations, broadcast operations, mining activities, and exploration missions.





Features

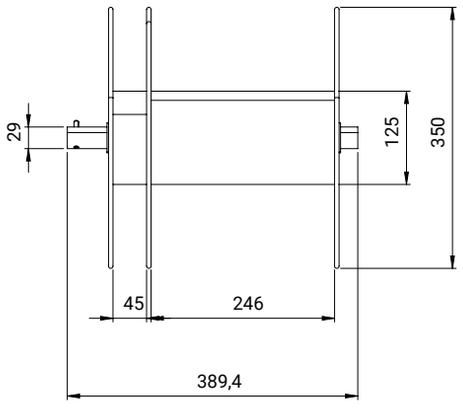
- Ergonomic and lightweight design (approx. 3.2 kg)
- Up to 500 m cable capacity
- Suitable for easy winding and unwinding operations
- Aluminum body with anti-corrosion coating
- Compatible with RCH-01 reel crank handle

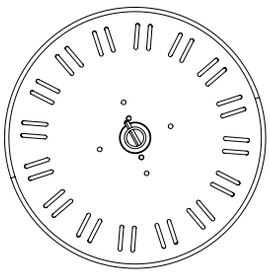
Ordering Codes

Item Code	Description
MT19156	SCR2-500 Universal Cable Reel

Dimensions

Unit: mm





SSF1-500 Cable Reeling/Unreeling Stand Frames

SSF1-500 Cable Reeling/Unreeling Stand Frames are professional hand-carried reel platform systems developed specifically for military and industrial applications, enabling efficient transport and rapid field deployment of fiber optic cables.

Its lightweight structure and ergonomic design ensure easy handling and improved operational efficiency when carrying reel-based cable systems. The robust construction provides reliable performance under harsh field conditions.

The system is suitable for use in various applications, including mobile emergency telecommunication stations, broadcast operations, mining activities, and exploration missions.

Features

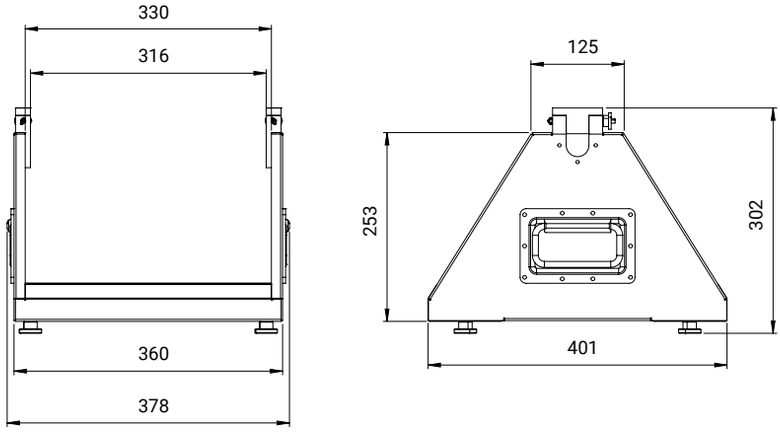
- Used with SAMM SCR2 Reels
- Ergonomic and lightweight design. 4.0 kg (approx.)
- Adjustable carrying straps
- Easy setup and rewinding (take-up) operation
- Stable reel stand
- Aluminum body with anti-corrosion coating
- Easy reel installation and removal
- Hand-crank winding and unwinding system

Ordering Codes

Item Code	Description
MT19416	SSF1-500 Cable Reeling/Unreeling Stand Frame

Dimensions

Unit: mm



SSF2-500 Cable Reeling/Unreeling Stand Frames

SSF2-500 Cable Reeling/Unreeling Stand Frames are professional hand-carried reel platform systems developed specifically for military and industrial applications, enabling efficient transport and rapid field deployment of fiber optic cables.

Its lightweight structure and ergonomic design ensure easy handling and improved operational efficiency when carrying reel-based cable systems. The robust construction provides reliable performance under harsh field conditions.

The system is suitable for use in various applications, including mobile emergency telecommunication stations, broadcast operations, mining activities, and exploration missions.

Features

- Ergonomic and lightweight design. 14.0 kg (approx.)
- Adjustable carrying straps
- Easy setup and rewinding (take-up) operation
- Stable reel stand
- Aluminum body with anti-corrosion coating
- Easy reel installation and removal
- Hand-crank winding and unwinding system

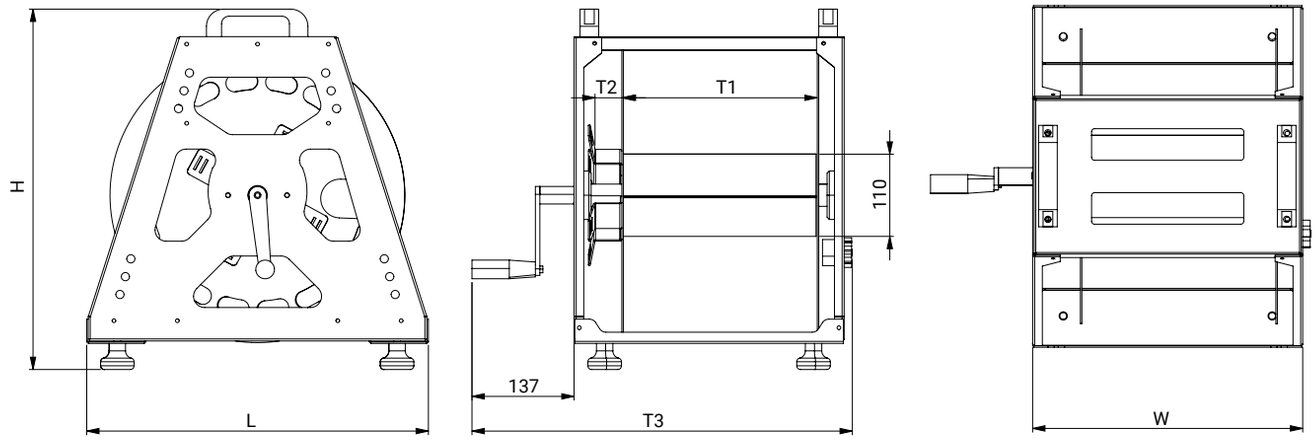
Ordering Codes

Item Code	Description
MT19416-1	SSF2-500 Cable Reeling/Unreeling Stand Frame

Dimensions

Unit: mm

Top View



SBPF-500 Backpack Reel Carrier Frames

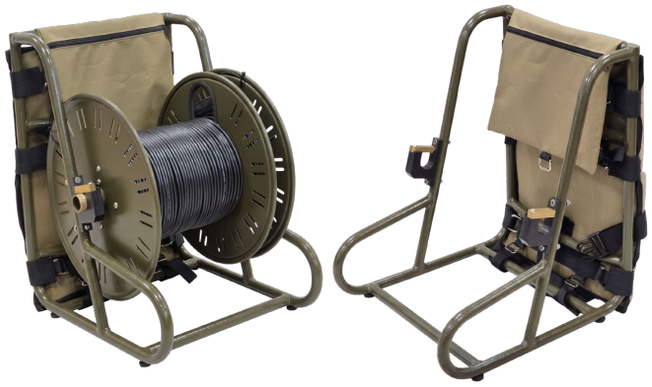
SBPF-500 Backpack Reel Carrier Frames are professional backpack-type reel carrying systems developed specifically for military and industrial applications, enabling efficient transport and rapid field deployment of fiber optic cables.

Its lightweight structure and ergonomic design ensure easy handling and improved operational efficiency when carrying reel-based cable systems. The robust construction provides reliable performance under harsh field conditions.

The system is suitable for use in various applications, including mobile emergency telecommunication stations, broadcast operations, mining activities, and exploration missions.

Features

- Ergonomic and lightweight design. 4.0 kg (approx.)
- Adjustable carrying straps
- Easy setup and rewinding (take-up) operation
- Stable reel stand
- Aluminum body with anti-corrosion coating
- Easy reel installation and removal
- Hand-crank winding and unwinding system

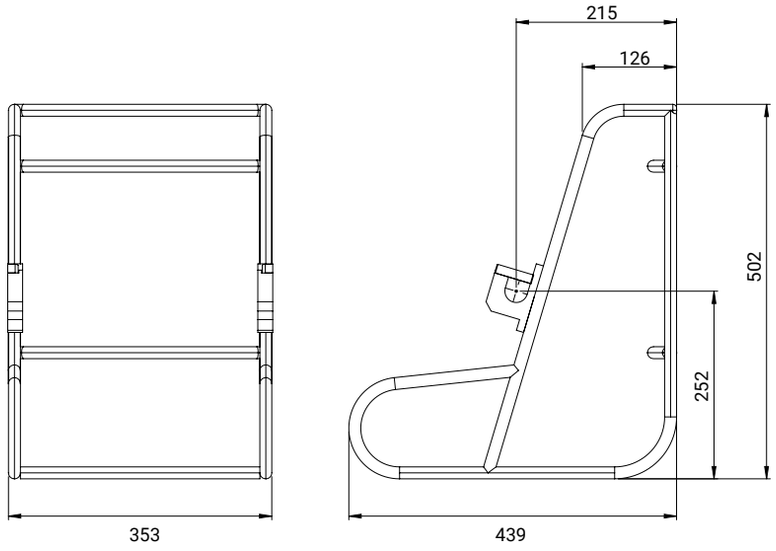


Ordering Codes

Item Code	Description
MT19415	SBF1-500 Backpack Reel Carrier Frame

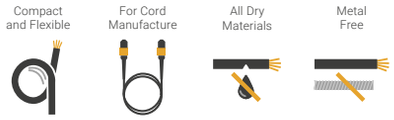
Dimensions

Unit: mm



Ruggedised PUR Jacket Distribution Cable | 2-4 Fibers

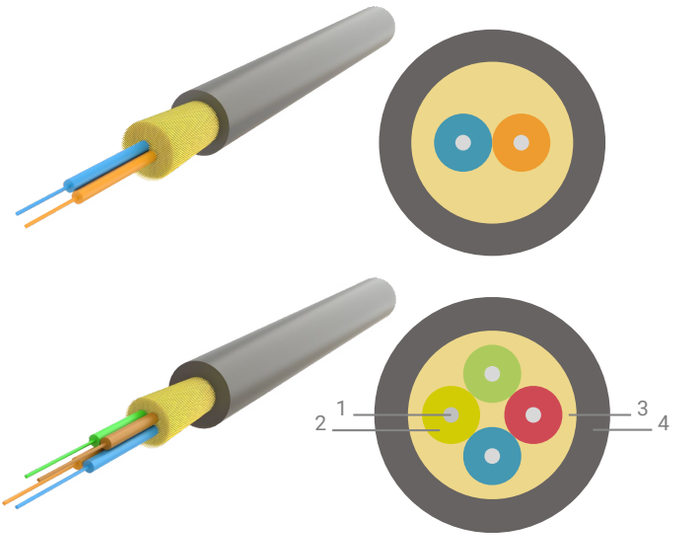
Design Type **UT-WT9Q(ZN-AY)11Y**



Standards: IEC 60794-1 / IEC 60794-3 / IEC 60793-1

Cable Construction

1	**Fiber**	Single-mode or Multi-mode 245 µ
2	**Tight Buffer Tube**	900µ TPE
3	**Strength Member**	Water Blocking Swellable Aramid yarn
4	**Outer Jacket**	TPU



Properties

- Universal indoor/outdoor tactical cable for harsh environments
- Suitable for military tactical use
- High tensile strength with crush resistance and cut-resistant
- Superior mechanical and thermal stability
- Lightweight, strong, flexible; easy deployment and reuse
- Dry design; direct connector assembly; easy stripping; good coiling
- Resistant to chemicals and UV; metal-free, halogen-free, abrasion

Mechanical Properties

Test	Test Standard	Specified Value
Tensile Force	IEC 60794-1-21-E1	1800 N (Installation), 600 N (In Service)
Crush Resistance	IEC 60794-1-21-E3	18000 N / 10 cm
Impact	IEC 60794-1-21-E4	Wp=2.21J, R:30cm, 200 impacts
Repeated Bending	IEC 60794-1-21-E6	R= 50mm, 20000 cycles
Torsion	IEC 60794-1-21-E7	L:1 m, ±1440°, 1000 cycles
Cable Bending	IEC 60794-1-21-E11A	R= 25mm, 6 turns, 10 cycles

Environmental Properties

Property	Test Standard	Result / Value
Temperature Range	IEC 60794-1-22-F12	-46 to +85 °C (installation), -46 to +85 °C (in service), -57 to +85 °C, (in storage)
2011/65/EC (RoHS)	-	compliant
(EU) No 305/2011 (CPR)	EN 50575	Eca

Ordering Codes

Order Code	Fiber Count	Sub Unit Count	Tube Diameter (mm) nom.	Cable Diameter (mm) nom.	Cable Weight (kg) nom.
002F-UT-WT9Q(ZN-AY)11Y-2U090-1x2-...-...-Eca-1.8kN	2	2	0.9	5.6	25
004F-UT-WT9Q(ZN-AY)11Y-4U090-1x4-...-...-Eca-1.8kN	4	4	0.9	5.8	25

*** Sample Code: 004F-UT-WT9Q(ZN-AY)11Y-4U090-1x4-A1-BK-Eca-1.8kN**

Available Fiber Types

Fiber Type	Compliance Standards
SM 9/125-A1	IEC 60793-2-50 Type B6_a1 + ITU G.657.A1
SM 9/125-A2	IEC 60793-2-50 Type B6_a2 + ITU G.657.A2

Fiber Type	Compliance Standards
MM 50/125-OM3	IEC 60793-2-10 A1a2 + ITU G.651 BendOptimized
MM 50/125-OM4	IEC 60793-2-10 A1a3 + ITU G.651 BendOptimized

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TURKIYE

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