

PRECONNECTORISED 3mm DROP CABLE®

Product Design

Product code – see page 2



DESIGN & CONSTRUCTION

- Suitable for underground and aerial applications.
- Terminated single ended or both ends.
- Supplied coiled (no bobbin/reel/drum).
- PIA Ready.

PRODUCT DESCRIPTION

The pre-connectorized indoor / outdoor 3mm diameter cable is perfect for applications where a discreet cable is required. The cable can be supplied in various lengths and can be terminated at a single end or at both ends. The most common terminations used are SC/APC and LC/APC although other can be supplied. Details on the cable specification can be found on the following pages. For PIA approval use PLP cable clamps.

Technical data

No. of Fibres	1		
Fibre Type	-	G.657.A2	
SAP code	-	-	
Micromodule Diameter - Ø	mm	0.9	
Sheath Thickness	mm	0.7	
Cable Diameter - Ø	mm	3.0	
Cable Weight	Kg/km	10	
Maximum Insertion Loss	dB	≤ 0.3 Typical 0.2 (UPC and APC) single mode (1310/1550nm)	
Return Loss	dB	≥ 55 (UPC), ≥ 65 (APC) single mode (1310/1550nm)	
Minimum Bending Radius	mm	Under Maximum Tension: 20x Cable Ø	Without tension: 10 x Cable Ø
Temperature Range	°C	Transport & Storage: -10 → +60	Installation: -10 → +60 Operation: -10 → +60



CABLE DESIGN

ACCORDING TO IEC 60794-2-50

- **Fibre:** Bend Bright™ XS Single-Mode Fibre.
- **Protection layer:** thermoplastic material.
- **Micromodule:** 0.9 mm LSOH coating (semi-tight).
- **Peripheral Strength Member:** aramid yarns.
- **Outer Sheath:** UV resistant black flame retardant LSOH.

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Part Numbers

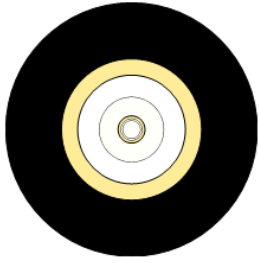
Part Number	Description	Length (m)	MOQ
XPCSC02437	Drop – 3mm SCA to SCA - 10M	10	320
XPCSC02438	Drop – 3mm SCA to SCA - 25M	25	280
XPCSC02439	Drop – 3mm SCA to SCA - 50M	50	140
XPCSC02440	Drop – 3mm SCA to SCA - 75M	75	120
XPCSC02441	Drop – 3mm SCA to SCA - 100M	100	120
XPCSC02442	Drop – 3mm SCA to SCA - 150M	150	60
XPCSC02443	Drop – 3mm SCA to SCA - 200M	200	45
XPCSC02444	Drop – 3mm LCA to LCA - 10M	10	320
XPCSC02445	Drop – 3mm LCA to LCA - 20M	20	300
XPCSC02446	Drop – 3mm LCA to LCA - 30M	30	240
XPCSC02447	Drop – 3mm LCA to LCA - 40M	40	190
XPCSC02448	Drop – 3mm LCA to LCA - 50M	50	140
XPCSC02449	Drop – 3mm LCA to LCA - 60M	60	120
XPCSC02450	Drop – 3mm LCA to LCA - 75M	75	120
XPCSC02451	Drop – 3mm LCA to LCA - 100M	100	120
XPCSC02452	Drop – 3mm LCA to LCA - 150M	150	60
XPCSC02453	Drop – 3mm LCA to LCA - 200M	200	45
XPCSC02454	Drop – 3mm SCA to LCA - 10M	10	320
XPCSC02455	Drop – 3mm SCA to LCA - 25M	25	280
XPCSC02456	Drop – 3mm SCA to LCA - 50M	50	140
XPCSC02457	Drop – 3mm SCA to LCA - 75M	75	120
XPCSC02458	Drop – 3mm SCA to LCA - 100M	100	120
XPCSC02459	Drop – 3mm SCA to LCA - 150M	150	60
XPCSC02460	Drop – 3mm SCA to LCA - 200M	200	45
XPCSC02461	Drop – 3mm SCA to NONE - 10M	10	320
XPCSC02462	Drop – 3mm SCA to NONE - 25M	25	280
XPCSC02463	Drop – 3mm SCA to NONE - 50M	50	140
XPCSC02464	Drop – 3mm SCA to NONE - 75M	75	120
XPCSC02465	Drop – 3mm SCA to NONE - 100M	100	120
XPCSC02466	Drop – 3mm SCA to NONE - 150M	150	60
XPCSC02467	Drop – 3mm SCA to NONE - 200M	200	45
XPCSC02468	Drop – 3mm LCA to NONE - 10M	10	320
XPCSC02469	Drop – 3mm LCA to NONE - 25M	25	280
XPCSC02470	Drop – 3mm LCA to NONE - 50M	50	140
XPCSC02471	Drop – 3mm LCA to NONE - 75M	75	120
XPCSC02472	Drop – 3mm LCA to NONE - 100M	100	120
XPCSC02473	Drop – 3mm LCA to NONE - 150M	150	60
XPCSC02474	Drop – 3mm LCA to NONE - 200M	200	45

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3mm drop cable datasheet

Indoor/outdoor aerial drop optical fibre cable

TC08463



-not to scale-

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Main characteristics

Test	Standard	Specified Value	Acceptance Criteria*
Maximum Load	IEC 60794-1-21-E1	500 N	$\Delta I/I$ fibre $\leq 0.6\%$, $\Delta\alpha \leq 0.05$ dB after the test
Tensile Performance - EDS	IEC 60794-1-21-E1	150 N	$\Delta I/I$ fibre $\leq 0.2\%$, $\Delta\alpha \leq 0.05$ dB after the test
Breaking Load	IEC 60794-1-21-E1	<2000N	No optical functionality
Crush	IEC 60794-1-21-E3	500 N / 100mm, 1 min	$\Delta\alpha \leq 0.05$ dB after the test, no damage
Impact	IEC 60794-1-21-E4	1J, 3 impact, R = 12.5mm	$\Delta\alpha \leq 0.05$ dB after the test
Stripping Force Stability of Cabled Fibres	IEC 60794-1-21-E5	0.3 m	30 cm optical fibre length extracted in one step
Kink	IEC 60794-1-21-E10	R = 10mm	No damage
Bending under tension	IEC 60794-1-21-E18A	R – 10 x OD, 100 N, 5min	$\Delta\alpha \leq 0.05$ dB during and after the test, no damage
Outer Sheath Strippability	IEC 60794-2-50-E21	50 mm	≤ 15 N
Temperature Cycling	IEC 60794-1-22-F1	-10 \rightarrow +60, 2 cycles	$\Delta\alpha \leq 0.05$ dB/Km, reversible

*values for single mode fibres, all optical measurements performed at 1550nm.

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Aerial Performance

Climatic Conditions	Sag %	Maximum Span (m) ²
100 km/h wind	2	68
5 mm radial ice	2	68

*examples of computed values.

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