

X 25 Year System Warranty

X Internal External Grade

X Sequentially Metre Marked

X Steel Wire Armour

Features

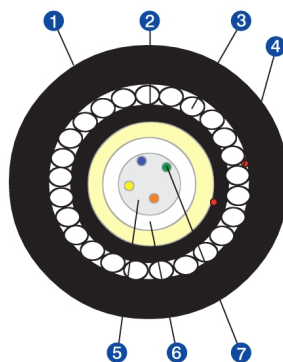
- 25 Year System Warranty
- Sequentially Metre Marked
- 50/125 Multimode Fibre
- Duct Grade
- Rodent Resistant
- Internal External Grade
- Steel Wire Armour
- LSZH Black Sheath
- Cut to length service

Product Overview

Excel range steel wire armoured cables suitable for direct burial and the most demanding of installations. Available from stock these cables are constructed from standard single loose tube cables which are then packed into a flexible but strong fibreglass waterblocking strength member. An internal sheath of Black Low Smoke Zero Halogen material is then applied, a rip cord is inserted under this sheath to ease cable stripping. Lengths of steel wire armouring are then applied and an oversheath of Black Low Smoke Zero Halogen is added.

The cables shown in the table below are available from stock, if you require core counts or jacket colours not shown please call our sales office for availability details.

4,8&12 Fibre Construction



- 1 LSZH Outer Sheath
- 2 LSZH Inner Sheath
- 3 Steel Wire Armouring
- 4 Ripcord
- 5 Filling Compound
- 6 Gel-filled Loose Tube
- 7 Optical Fibres

Performance Overview

Excel loose tube fibre optic cables are designed and manufactured to ensure that optimum performance is possible from installed fibre links. Support of protocols such as Gigabit Ethernet over maximum distances are assured, due to improved bandwidth available as standard from Excel fibre cables.

Optical Performance

Modal-Field Diameter

$50 \pm 2.5 \mu\text{m}$

$125 \pm 1 \mu\text{m}$

	850 nm	1300 nm
Average Attenuation	2.3 dB/km	0.6 dB/km
Maximum Attenuation	2.8 dB/km	0.9 dB/km
Bandwidth	≥600 MHz.km	≥1200 MHz.km
Ethernet Performance	600 m	600m
Gigabit	82 m	n/a
Refractive Index (n)	1.481	1.476
Numerical Aperture	0.20 ± 0.015 μm	
SWA Loose Tube Cable		
Nominal and Maximum Outside Diameter	9.6 / 9.9 mm	
Loose Tube Diameter	3.2 mm	
Energy of flame	1509 kJ/m	
Weight	237 kg/km	
Reel Size	Ø800 x 475 mm / Ø1000 x 530 mm	
Standard delivery length	2100 ± 100 m / 4100 ± 100 m	
Temperature range	IEC 60794-1-2-F1	-30 to +70 °C
Transport / Storage		-5 to +50 °C
Installation		-30 to +70 °C
Operation		
Pulling tension	IEC 60794-1-2-E1	≤ 700 N
Long term		≤ 1500 N
Short term		
Bending radii for fibres and tubes Installation/operation		>25 mm
Watertightness	IEC 60794-1-2-F5	Yes
Crush resistance	IEC 60794-1-2-E3	≤ 30000 N/m
Cable		
Bending radii cable	IEC 60794-1-2-E11	10 x Ø
Static according	IEC 60794-1-2-E6	15 x Ø
Dynamic		
Flame retardancy	IEC 60332-3C (EN 50266-2-4)	Pass
Halogen-free Corrosivity	IEC 60754-2 (EN 50267-2-2)	pH ≥ 3.5 - μS/cm ≤ 100
Construction	IEC 60794	
Steel Wire Armour	Helical stranded galvanized steel wires of Ø 0.6 mm	

Typical Applications

- 100BASE-FX
- 1000BASE-SX
- 1000BASE-LX
- 10GBASE-LX4
- 155 Mbps ATM
- 622 Mbps ATM
- FDDI
- 531 Mbps Fibre Channel
- 1062 Mbps Fibre Channel

Cores 1-12

1. Blue	2. Orange	3. Green	4. Brown
5. Natural	6. White	7. Red	8. Black
9. Yellow	10. Violet	11. Pink	12. Turquoise

Cores 13-24

13. Blue	14. Orange	15. Green	16. Brown
17. Natural	18. White	19. Red	20. Black
21. Yellow	22. Violet	23. Pink	24. Turquoise

Part Number Information

Part No.	Description
205-348	Internal/External Grade SWA Fibre Cable 4 Core 50/125 OM2
205-364	Internal/External Grade SWA Fibre Cable 8 Core 50/125 OM2
205-352	Internal/External Grade SWA Fibre Cable 12 Core 50/125 OM2
205-366	Internal/External Grade SWA Fibre Cable 16 Core 50/125 OM2
205-354	Internal/External Grade SWA Fibre Cable 24 Core 50/125 OM2

System Warranty

The Excel System Warranty provides a 25-year product and applications assurance of compliance with the industry performance standard appropriate to the class of cabling installed. The warranty may be applied for by an accredited Excel Partner who has designed, supplied and installed the said system.



Excel is a world-class premium performing end-to-end infrastructure solution - designed, manufactured, supported and delivered - without compromise.

Contact us at sales@excel-networking.com



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