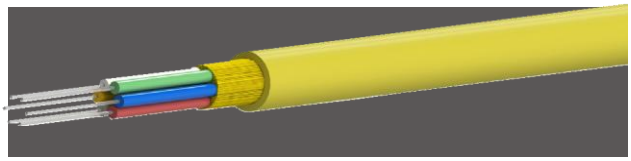
Distribution Series Fibre Optic Cable 2-144F

Distribution series cable is ideal for installations requiring a flexible, lightweight and reliable cable design where excellent mechanical and environmental protection remain necessary. The balance between compact size and rugged construction makes distribution the preferred cable for many pre-terminated cable assemblies or site terminated fibre networks.



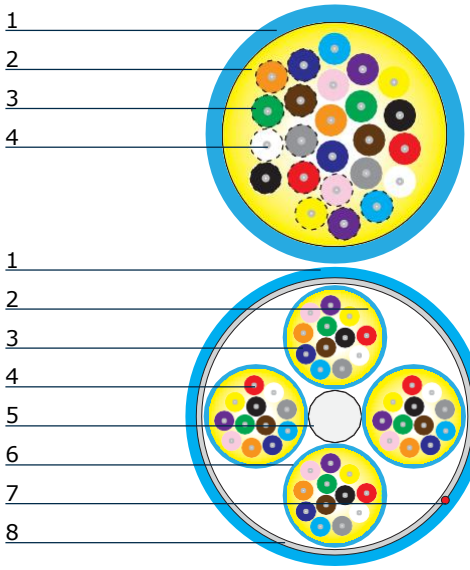
Applications

- Suitable for indoor/outdoor confined spaces
- Building risers
- Cable trays
- Central offices
- Campus networks

Features & Benefits

- Low smoke, zero halogen jacket and materials to IEC 60754/IEC 61034
- RHE1 according to AS/NZS 4507
- High performance components and construction for long service life and trouble free connectivity
- 900um buffer allows for easy termination straight to the buffered fibre or oversleeving for additional protection
- High strength to weight ratio allows for easy handling
- Aramid yarn strength member and all dielectric cable construction
- Suitable for vertical risers and areas where toxic materials are not permitted
- Wide operating temperature
- range of -20°C to +70°

Cable Construction 2-24F typical		
Component	**Material**	**Colour**
1	LSZH	Varies
2	Aramid Yarns	Yellow
3	LSZH	TIA 598 Colours
4	Optical Fibre	Clear
Cable Construction 48-144F typical		
1	LSZH	Varies
2	Aramid Yarns	Yellow
3	LSZH	TIA 598 Colours
4	Optical Fibre	Clear
5	FRP	Natural
6	LSZH	As per outer jacket
7	Polyester Ripcord	Varies
8	Water Swellable Tape	Clear



Cable Characteristics										
Core Count	2	4	6	8	12	24	48	72	96	144
Nominal Diameter (mm)	4.3	4.7	5.5	6.1	6.5	9.0	16.4	19.6	22.9	26.0
Nominal Weight (kg/km)	20	22	28	34	41	72	211	313	443	476
Max Tensile Load (N)	600	600	600	600	800	1200	2500	3000	4000	4500

	Installation	Operation
Minimum Bend Radius (cm)	15 x D	10 x D
Temperature Range	-10°C to +60°C	-20°C to +70°C

Fibre Performance											
	OM1 Multimode		OM3 Multimode		OM4 Mul	timod e	G652 D	Singlemo d	e	G657A2 Singlemode	
Wavelength (nm)	850	1300	850 1300		850	1300	1310	1550	1625	1310 1550	1625
Attenuation (dB/km)	<3.5	<1.5	<3.0 <1.0		<3.0	<1.0	<0.40	<0.30	<0.35	<0.40 <0.30	<0.35
Bandwidth (MHz km)	>200	>500	>1500 >5		>3500	>500	N/A	N/A	N/A	N/A N/A	N/A

Mechanical Testing				
	Procedure	SM (1550nm)	MM (1300nm)	Test Standard
Tensile Force (ΔdB)	Tensile applied, L 100m, 10 min	<0.1*	<0.1*	(IEC 60794-1-2-E1)
Crush Resistance (ΔdB)	1000 N/100mm, 5 min 1500N/100mm, 5 min (96/144)	<0.1*	<0.1*	(IEC 60794-1-21-E3)
Impact Resistance (ΔdB)	150mm, 0.5kg, 25mm Radius, 10 times	<0.1*	<0.1*	(IEC 60794-1-2-E4)
Torsion Resistance (ΔdB)	2m, 50N, ±180°, 5 cycles	<0.1*	<0.1*	(IEC 60794-1-2-E7)
Temperature Cycling (ΔdB)	20°C ~-20°C ~+70°C ~-20°C ~+70°C ~20°C, 12h/step	<0.1*	<0.3*	(IEC 60794-1-2-F1)

Cable Compliance			
Standard	**Compliance**	**Standard**	**Compliance**
IEC 60794-1-2	Complies	IEC 60754-1/2	Complies
IEC 60332-1-2	Complies	IEC 61034-2	Complies
AS/CA S008	Complies	ITU-T	Complies