



INDOOR CABLE

AYR, AYR<C> and CAYR

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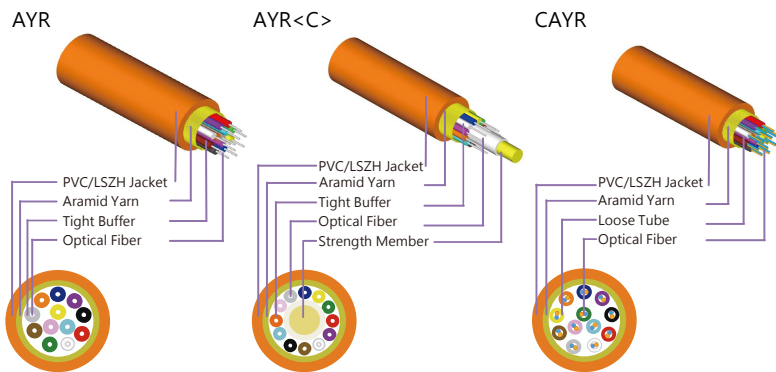


INDOOR CABLE

Product Information

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Construction



Description

AYR, AYR<C> and CAYR are designed for voice, video, data transmission and inside building communication applications. Fibers of these cables count from 2 to 24 (12 fibers for AYR<C>) with a colored coded 900 μm flame retardant buffer. The AYR<C> cable has aramid yarn as central strength member.

Specification

Cable Type	AYR	AYR<C>	CAYR
Fiber Count	2 ~ 24	4 ~ 12	2 ~ 24
Strength Member	Aramid Yarn		
Sheath	PVC or LSZH Jacket		
Cable Diameter (approx)	4.8 ~ 8.5 mm	6.5 ~ 7.3 mm	2.8 ~ 7.2 mm
Cable weight (approx)	18.2 ~ 60 kg/km	37 ~ 49 kg/km	7 ~ 45.6 kg/km
Max. Tensile Strength	12C ↓ :	660 N	660 N
	12C ↑ :	1320 N	1320 N
Min. Bend Radius	Loaded:	20 times of cable diameter	
	Unloaded:	10 times of cable diameter	

* LSZH: Low Smoke Zero Halogen.

Color Code

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Blue	Oran.	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua	Blue	Oran.	Green	Blown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua

* Color arrangement would be changed to meet customers' requests, for 24 cores color code will be same as code1 ~ code 12 with extra marks.

Fiber Specification

Fiber Attenuation	Singlemode	1310nm ≤ 0.4 dB/km
		1550nm ≤ 0.3 dB/km
Multimode	850nm ≤ 3.5 dB/km	
	1300nm ≤ 1.0 dB/km	
Bandwidth(MM)	OM2-50/125	850nm ≥ 500 MHz-km
		1300nm ≥ 500 MHz-km
	OM3-50/125	850nm ≥ 1500 MHz-km
		1300nm ≥ 500 MHz-km
62.5/125	850nm ≥ 200 MHz-km	
	1300nm ≥ 500 MHz-km	

Mode-Field Diameter(SM)	G.652D	1310 nm: 9.2 μm, ± 0.4 μm
		1550 nm: 10.4 μm ± 0.7 μm
Multimode Core	G.657A	1310 nm: 8.9 μm, ± 0.4 μm
		1550 nm: 10.0 μm ± 0.7 μm
Multimode Core	50: 50 μm ± 3 μm	
	62.5: 62.5 μm ± 3 μm	
Cladding Diameter	125 μm ± 1 μm	
Coating Diameter	250 μm ± 15 μm	

Application

- Horizontal or Riser
- Cross-connect
- Interconnect
- Distribution
- Work area, equipment connections

Features and Benefits

- Easy direct connection
- UL approval for OFNR riser type
- Buffer material is easy to be stripped
- High quality and compact design
- Fiber type can be identified from outer jacket color
- Compliant with EIA/TIA 568 and Telcordia GR-409-CORE standards
- Small diameter and bend radius provide easy installation in space-constrained areas

Mechanical Specification (added attenuation: dB)

Tensile Strength	TIA/EIA-455-33	Singlemode ≤ 0.2 ; Multimode ≤ 0.3
Crush Resistance	TIA/EIA-455-41	Singlemode ≤ 0.2 ; Multimode ≤ 0.3
Cyclic Flexing	TIA/EIA-455-104	Singlemode ≤ 0.2 ; Multimode ≤ 0.3
Impact Resistance	TIA/EIA-455-25	Singlemode ≤ 0.2 ; Multimode ≤ 0.3
Cable Twist	TIA/EIA-455-85	Singlemode ≤ 0.2 ; Multimode ≤ 0.3

* Compliant with Telcordia GR-409-Core and EIA/TIA standards.

Environmental Condition

Temperature Range	Storage	-30°C to +70°C
	Operating	-20°C to +70°C
	Installation	-20°C to +70°C

Ordering Information

Cable Type	AYR	AYR<C>	CAYR
Fiber Count	02 ~ 24	04 ~ 12	02 ~ 12
Fiber Type	Singlemode: G.652D, G.657A Multimode: OM1, OM2 or OM3		
Cable Outside Dia.	4.8 ~ 8.5 mm	6.5 ~ 7.3 mm	2.8 ~ 7.2 mm
Jacket Type	PVC or LSZH Jacket		



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