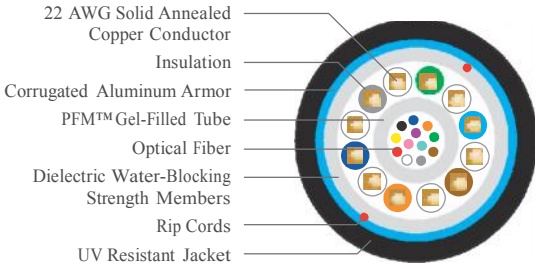
BURIED DROP COMPOSITE, ALUMINUM ARMOR

Series 72

Belden Wire and Cable Corporation



Product Description

Series 72 is the underground cable solution for the situation that requires both optical fiber and twisted pairs. This product is available in fiber counts up to 12 with 2-pair, 3-pair or 6-pair 22 AWG copper pairs. Series 72 serves the need for communications or power over copper pairs with optical fiber available for the future. The core is constructed with a single tube containing up to 12 optical fibers and up to 6 copper pairs. A corrugated aluminum armor and longitudinal strength elements are applied over the core tube and encased within a black, weather resistant jacket. Rip cords are included under the armor for ease of access to the core.

Applications

- Fiber to the premise
- Broadband network
- Buried, underground

Features

- Composite fiber/copper design
- Round shape
- Corrugated aluminum armor
- Dry (SAP) core standard
- PFM™ gel
- Insulation of tip conductors are marked with a stripe of the mating ring's insulation color

Benefits

- Multiple Network applications
- Conforms to standard practices and hardware
- Improves flexibility
- Reduces cable prep and installation time
- Non-sticky gel allows for easier and faster clean up
- Reduces the possibility of splitting pairs during installation

Specifications

Fiber Components	Available in 2-fiber up to 12-fiber loose inside a PFM gel-filled buffer tube
Copper Components	Available with 2, 3 or 6-pair 22 AWG solid annealed copper conductors each insulated with solid polyolefin in distinctive colors
Standards Compliance	Telcordia GR-20-CORE RDUP PE-90 Designation 72 RoHS-compliant

Environmental Specifications

Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

Electrical Specifications

Conductor AWG (mm)	Conductor DC Resistance @ 68°F Maximum Individual Ohms/mile (Ohms/km)	Resistance Unbalance Maximum Individual Pair %	Minimum Dielectric Strength DC Potential Volts Conductor to Conductor
22 (0.64)	91.0 (56.4)	5.0	7,200

Part Numbers and Physical Characteristics

Part Number[1]	Copper Pair Count	Fiber Count	Nominal Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Maximum Tensile Loading		Minimum Bend Radius		Copper Max. Amperage A	Copper Max. Voltage vDC	Package
					Install lbs (N)	Long Term lbs (N)	Install in (mm)	Long Term in (mm)			
172002xx21	2	2	0.39 (9.8)	61 (91)	300 (1,335)	100 (445)	7.8 (198)	3.9 (99)	1.0	150	Reel
172004xx21	2	4	0.39 (9.8)	61 (91)	300 (1,335)	100 (445)	7.8 (198)	3.9 (99)	1.0	150	Reel
172006xx21	2	6	0.39 (9.8)	61 (91)	300 (1,335)	100 (445)	7.8 (198)	3.9 (99)	1.0	150	Reel
172002xx61	6	2	0.43 (10.8)	338 (504)	300 (1,335)	100 (445)	8.6 (218)	4.3 (109)	1.0	150	Reel
172004xx61	6	4	0.43 (10.8)	338 (504)	300 (1,335)	100 (445)	8.6 (218)	4.3 (109)	1.0	150	Reel
172006xx61	6	6	0.43 (10.8)	338 (504)	300 (1,335)	100 (445)	8.6 (218)	4.3 (109)	1.0	150	Reel
172012xx61	6	12	0.43 (10.8)	338 (504)	300 (1,335)	100 (445)	8.6 (218)	4.3 (109)	1.0	150	Reel

Part Number Key

7	2	_	_	_	x	x	2, 3, or 6	_
1	2	3	4	5	6	7	8	9
Product family		Fiber count (002-012)			Fiber type	Internal designator	Copper pairs	Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings.
See "Optical Fiber Cable" options in the "Technical Information" section for flooding and jacket marking options.

Single Mode Optical Fiber Types

	Conventional	Reduced Water Peak	Zero Water Peak	TeraFlex® Bend Resistant			NZDS
				G.657.A1	G.657.A2	G.657.B3	
[1]Replace "xx" with:	93	33	23	K3	J3	L3	83

See the "Optical Fiber Selection Chart" in the "Technical Information" section for detailed fiber type specifications.

Multimode Optical Fiber Types

	TeraGain®	TeraGain Laser Optimized 50/125		
	62.5/125	10G/150	10G/300	10G/550
[1]Replace "xx" with:	6G	AG	BG	FG