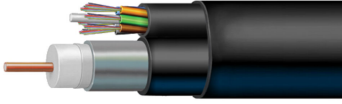


# E20540JCA-24CT MICFIBR

## E20® Coaxial/Fiber Hybrid Aerial Cable



- E20 is a solution that enables service providers the ability to bridge HFC networks to FTTx. The E20 composite coaxial/fiber product line combines fiber, microducts, and coaxial cable under one jacket
- Serves businesses in a new commercial serving area
- Mitigates future cost of fiber installation
- Saves on initial installation due to “single sheath” vs. multiple sheaths
- Ideal for commercial data customers that also require video
- All products tested to industry standards

**OBSOLETE**

### Product Classification

<b>Product Type</b>	Hybrid cable, coax and fiber
<b>Product Brand</b>	E20®

### General Specifications

<b>Cable Series</b>	QR 540
<b>Total Fiber Count</b>	24

### Dimensions

<b>Height</b>	24.638 mm   0.97 in
<b>Width</b>	17.018 mm   0.67 in
<b>Outer Jacket Thickness, nominal</b>	0.762 mm   0.03 in

### Material Specifications

<b>Outer Jacket Material</b>	Medium density polyethylene (MDPE)
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### Mechanical Specifications

<b>Minimum Bend Radius</b>	101.6 mm   4 in
<b>Pulling Tension, maximum</b>	33.112 kg   73 lb

### Environmental Specifications

<b>Environmental Space</b>	Aerial
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# E20540JCA-24CT MICFIBR

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## Packaging and Weights

**Weight, gross** 273.822 kg/km | 184 lb/kft

## Regulatory Compliance/Certifications

### Agency

ISO 9001:2015



### Classification

Designed, manufactured and/or distributed under this quality management system

## Included Products

- 550006392 QR® 540 JCA – 75 Ohm QR® Trunk and Distribution Cable, black PE jacket
- 810008925/DB B-024-LN-8W-F12NS/16G – LightScope ZWP® Blown Micro Single Jacket All-Dielectric Outdoor Stranded Loose Tube Arid-Core® Construction Cable

75 Ohm QR® Trunk and Distribution Cable, black PE jacket



## Product Classification

<b>Product Type</b>	Coaxial hardline cable
<b>Product Brand</b>	QR®

## General Specifications

<b>Cable Type</b>	540 Series
<b>Construction Type</b>	Welded
<b>Jacket Color</b>	Black
<b>Short Description</b>	QR 540 JCA SM PR2171

## Dimensions

<b>Cable Length</b>	1,127.76 m   3700 ft
<b>Diameter Over Center Conductor, nominal</b>	3.15 mm   0.124 in
<b>Diameter Over Dielectric, nominal</b>	13.056 mm   0.514 in
<b>Diameter Over Jacket, nominal</b>	15.494 mm   0.61 in
<b>Diameter Over Outer Conductor, nominal</b>	13.716 mm   0.54 in
<b>Jacket Thickness, nominal</b>	0.889 mm   0.035 in
<b>Outer Conductor Thickness, nominal</b>	0.343 mm   0.014 in

## Electrical Specifications

<b>Capacitance</b>	50.197 pF/m   15.3 pF/ft
<b>Capacitance Tolerance</b>	±1.0 pF/ft
<b>Characteristic Impedance</b>	75 ohm
<b>Characteristic Impedance Tolerance</b>	±2 ohm
<b>dc Resistance Note</b>	Nominal values based on a standard condition of 20 °C (68 °F)

# 550006392 | QR® 540 JCA

<b>dc Resistance, Inner Conductor, nominal</b>	3.346 ohms/km   1.02 ohms/kft
<b>dc Resistance, Loop, nominal</b>	5.282 ohms/km   1.61 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	1.936 ohms/km   0.59 ohms/kft
<b>Jacket Spark Test Voltage</b>	5000 Vac
<b>Nominal Velocity of Propagation (NVP)</b>	88 %
<b>Operating Frequency Band</b>	5–3000 MHz
<b>Structural Return Loss</b>	24 dB @ 1003–1218 MHz   24 dB @ 1219–1794 MHz   30 dB @ 5–1002 MHz
<b>Structural Return Loss, Grade N</b>	=24 dB @ 1003–1218 MHz   =24 dB @ 1219–1794 MHz   =30 dB @ 5–1002 MHz

## Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	0.46	0.14
55.0	1.54	0.47
85.0	1.94	0.59
204.0	3.05	0.93
211.0	3.12	0.95
250.0	3.38	1.03
300.0	3.71	1.13
350.0	4.04	1.23
400.0	4.33	1.32
450.0	4.59	1.4
500.0	4.89	1.49
550.0	5.12	1.56
600.0	5.38	1.64
750.0	6.07	1.85
865.0	6.56	2
1002.0	7.12	2.17
1218.0	7.89	2.41
1500.0	9.07	2.76
1794.0	10.11	3.08
1800.0	10.13	3.09
2000.0	10.81	3.29
2200.0	11.46	3.49

# 550006392 | QR® 540 JCA

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<b>2500.0</b>	12.41	3.78
<b>2700.0</b>	13.03	3.97
<b>3000.0</b>	13.93	4.24

## Material Specifications

<b>Center Conductor Material</b>	Copper-clad aluminum
<b>Dielectric Material</b>	Foam PE
<b>Jacket Material</b>	PE
<b>Outer Conductor Material</b>	Aluminum

## Mechanical Specifications

<b>Pulling Tension, maximum</b>	99.79 kg   220 lb
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## Environmental Specifications

<b>Environmental Space</b>	Aerial
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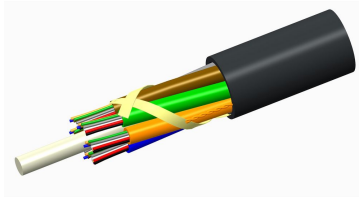
## Packaging and Weights

<b>Packaging Type</b>	Reel
<b>Weight, gross</b>	178.58 kg/km   120 lb/kft

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system





LightScope ZWP® Blown Micro Single Jacket All-Dielectric Outdoor Stranded Loose Tube Arid-Core® Construction Cable

## Product Classification

<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA   Latin America   North America
<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Fiber OSP cable
<b>Product Series</b>	B-LN

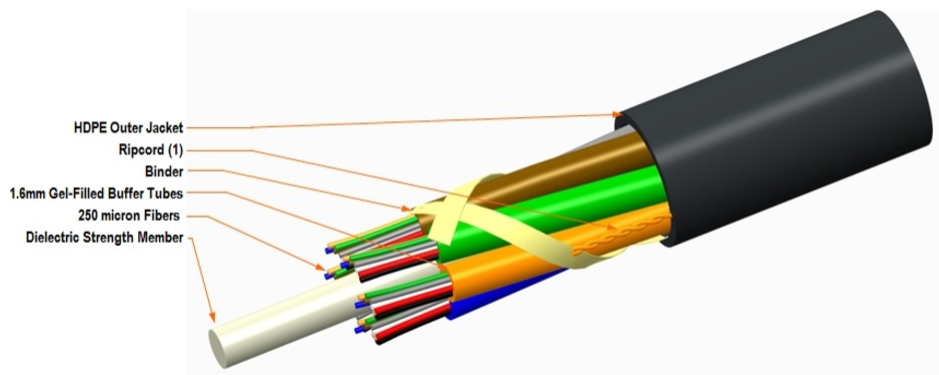
## General Specifications

<b>Cable Type</b>	Stranded loose tube
<b>Construction Type</b>	Non-armored
<b>Fiber Type, quantity</b>	24
<b>Fibers per Subunit, quantity</b>	12
<b>Filler, quantity</b>	3
<b>Jacket Color</b>	Black
<b>Jacket Marking</b>	Feet
<b>Subunit Type</b>	Gel-filled
<b>Subunit, quantity</b>	2
<b>Total Fiber Count</b>	24

## Dimensions

<b>Buffer Tube/Subunit Diameter</b>	1.6 mm   0.063 in
<b>Diameter Over Jacket</b>	5.5 mm   0.217 in

## Representative Image



## Material Specifications

**Jacket Material** High density polyethylene (HDPE)

## Mechanical Specifications

**Minimum Bend Radius, loaded** 83 mm | 3.268 in

**Minimum Bend Radius, unloaded** 55 mm | 2.165 in

**Tensile Load, long term, maximum** 97 N | 21.806 lbf

**Tensile Load, short term, maximum** 324 N | 72.838 lbf

**Compression** 10 N/mm | 57.101 lb/in

**Compression Test Method** FOTP-41 | IEC 60794-1 E3

**Flex** 25 cycles

**Flex Test Method** FOTP-104 | IEC 60794-1 E6

**Impact** 0.3 N-m | 2.655 in lb

**Impact Test Method** FOTP-25 | IEC 60794-1 E4

**Strain** See long and short term tensile loads

**Strain Test Method** FOTP-33 | IEC 60794-1 E1

**Twist** 10 cycles

**Twist Test Method** FOTP-85 | IEC 60794-1 E7

**Vertical Rise, maximum** 492 m | 1,614.173 ft

## Optical Specifications

**Fiber Type** G.652.D and G.657.A1 | G.652.D and G.657.A1

## Environmental Specifications

**Installation temperature** -30 °C to +70 °C (-22 °F to +158 °F)

<b>Operating Temperature</b>	-30 °C to +70 °C (-22 °F to +158 °F)
<b>Storage Temperature</b>	-30 °C to +75 °C (-22 °F to +167 °F)
<b>Cable Qualification Standards</b>	IEC 60794-5-10
<b>Environmental Space</b>	Air-blown, microduct
<b>Jacket UV Resistance</b>	UV stabilized
<b>Water Penetration</b>	24 h
<b>Water Penetration Test Method</b>	FOTP-82   IEC 60794-1 F5

## Environmental Test Specifications

<b>Cable Freeze</b>	-2 °C   28.4 °F
<b>Cable Freeze Test Method</b>	FOTP-98   IEC 60794-1 F15
<b>Drip</b>	70 °C   158 °F
<b>Drip Test Method</b>	FOTP-81   IEC 60794-1 E14
<b>Heat Age</b>	-30 °C to +85 °C (-22 °F to +185 °F)
<b>Heat Age Test Method</b>	IEC 60794-1 F9
<b>Low High Bend</b>	-30 °C to +60 °C (-22 °F to +140 °F)
<b>Low High Bend Test Method</b>	FOTP-37   IEC 60794-1 E11
<b>Temperature Cycle</b>	-30 °C to +70 °C (-22 °F to +158 °F)
<b>Temperature Cycle Test Method</b>	FOTP-3   IEC 60794-1 F1

## Packaging and Weights

<b>Cable weight</b>	20 kg/km   13.439 lb/kft
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



### \* Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable