



Caledonian

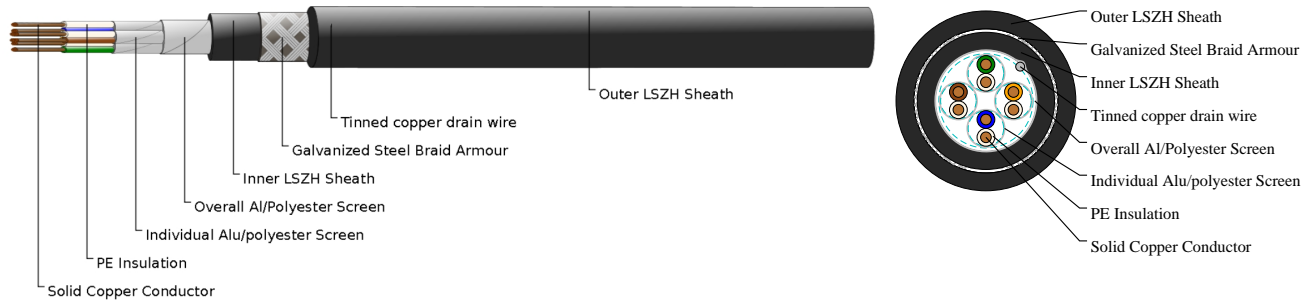
Railway Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

K20 LSZH Armoured F/FTP Cat6 Cables

RD/K20-F/FTPCat6-2Y(St)H(SWB)H-PIMF-4P0.56



APPLICATIONS

The cables are designed for high speed data transmissions, and are suitable for installations in cable trays or on hooks.

STANDARDS

RATP CAT6-K20

CABLE CONSTRUCTION

Conductors: Class 1 AWG23 solid copper conductor.

Insulation: Solid polyethylene.

Cabling Element: Two conductors are twisted together to form a pair.

Individual Screen: Alu/polyester shield on each pair.

Overall Screen: Alu/polyester shield.

Drain Wire: Tinned copper drain wire, 0.5mm nominal diameter.

Inner Sheath: LSZH.

Armour: Galvanized steel braid armour.

Outer Sheath: LSZH.

PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 12XOD (static); 24XOD (dynamic)

Temperature Range: -40°C to +60°C (during operation); -10°C +60°C (during installation)

Electrical Properties

Electrical Characteristics at 20°C:

Nominal Conductor Diameter: 0.56 mm

Maximum Conductor Resistance: 146.4 Ω/km

Minimum Insulation Resistance @500 V DC: 5000 MΩ.km

Characteristics Impedance @100MHz: 100Ω

Maximum Capacitance Unbalance:

Real/earth: 1600 pF/km

Maximum Average Attenuation



Caledonian

Railway Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

@1MHz:2 dB/100m
@4MHz:3.8 dB/100m
@10MHz:6 dB/100m
@16MHz:7.6 dB/100m
@25MHz:9.5 dB/100m
@31.25MHz:10.7 dB/100m
@62.5MHz:15.4 dB/100m
@100MHz:19.8 dB/100m
@250MHz:32.9 dB/100m

Minimum NEXT Pair to Pair

@1MHz:77.3 dB
@4MHz:68.3 dB
@10MHz:62.3 dB
@16MHz:59.2 dB
@25MHz:56.3 dB
@31.25MHz:54.9 dB
@62.5MHz:50.4 dB
@100MHz:47.3 dB
@250MHz:41.3 dB

Minimum ELFEXT Pair to Pair

@1MHz:68.8 dB
@4MHz:56.8 dB
@10MHz:48.8 dB
@16MHz:44.7 dB
@25MHz:40.8 dB
@31.25MHz:38.9 dB
@62.5MHz:32.8 dB
@100MHz:28.8 dB
@250MHz:20.8 dB

DIMENSION AND PARAMETERS

No. of Pairs	AWG Size	Conductor Diameter	Nominal Diameter over Insulation	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Nom. Overall Diameter	Approx. Weight
		mm	mm	mm	mm	mm	kg/km
4	23	0.56	1.45	1	1	11.7	156



Caledonian

Railway Cables

www.caledonian-cables.com

marketing@caledonian-cables.com



Acid & Alkaline Resistant



Fire Retardant
NF C32-070-2,2(C1)
IEC60332-3-24/EN50366-2-4



Flame Retardant
NF C32-070-2,1(C2)
IEC60332-1-2/EN50365-2-1



Impact Resistant



Laid In Cable Tray



Low Corrosivity
IEC60754-2/EN50267-2-2,3
NF C32-074/NF C20-453



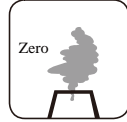
Low Smoke Emission
IEC 61034-2 / EN 50268-2
NF C32-073/NF C 20-902



Low Toxicity



Mineral Oil Resistant



Zero Halogen
IEC 60754-1/EN 50267-2-1
NF C20-454