

**KCOM**

# KCOM Guide to Circuit Types for East Midlands









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<p><b>ADSL* and Bonded ADSL</b></p> <p><b>(Asymmetric Digital Subscriber Line)</b></p>	<p><b>How is it delivered?</b></p> <p>Copper Cable</p> 	<p><b>Bandwidth</b></p> <p>Up to 20Mbps* Bonded ADSL bonds up to 4 connections</p> 	<p><b>What you need to know</b></p> <ul style="list-style-type: none"> <li>• Actual bandwidth achieved is dependent on the distance from the telephone exchange</li> <li>• Asymmetrical service – download speeds higher than upload speeds which may be very low</li> <li>• No opportunity for bandwidth upgrades</li> <li>• Low cost</li> <li>• Only suitable for schools with very low internet usage or limited alternative options</li> <li>• Possible to offer bonded service to get higher bandwidths</li> </ul>
	<p><b>Service Availability Target</b></p> <p>99.40%</p> 	<p><b>Lead Time</b></p> <p>30 to 50 days</p> 	
	<p><b>Where is the service available?</b></p> <p>Universally available</p> 	<p><b>Target time to fix faults?</b></p> <p>48 hours</p> 	






\* Performance figures stated are indicative and may not be achieved in practice. Estimates are based on the best data available from BT Openreach, but cannot be guaranteed.

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<b>MPF*</b>  (Metallic Path Facilities)	<b>How is it delivered?</b>	<b>Bandwidth</b>	<b>What you need to know</b> <ul style="list-style-type: none"> <li>• Dedicated bandwidth over a copper circuit</li> <li>• Bandwidth achievable is dependent on distance from the exchange</li> <li>• Symmetrical service - upload and download speeds the same</li> <li>• Very limited opportunity to expand bandwidth</li> <li>• Lower cost than fibre</li> <li>• Suitable for schools with limited alternative options</li> </ul>
	Copper Cable 	Up to 10Mbps* 	
	<b>Service Availability Target</b>	<b>Lead Time</b>	
	99.75% 	30 to 50 days 	
	<b>Where is the service available?</b>	<b>Target time to fix faults?</b>	
	Low cost circuits limited to telephone exchanges where Kcom has installed technology to exploit this service	6 hours 	





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<b>FTTC*</b>  (Fibre To The Cabinet)	<b>How is it delivered?</b>	<b>Bandwidth</b>	<b>What you need to know</b> <ul style="list-style-type: none"> <li>• Reliable mechanism to achieve good bandwidth</li> <li>• Bandwidth figures are best estimates</li> <li>• Asymmetrical service – download speeds higher than upload speeds</li> <li>• Achievable speeds depend on distance from the cabinet and quality of the copper connection to the site</li> <li>• No opportunity for bandwidth upgrades</li> <li>• Lower cost than fibre ethernet</li> <li>• Suitable for schools with moderate – high internet usage</li> <li>• Suitable as a resilient emergency connection for fibre connected schools with high usage</li> </ul>
	Fibre Optic Cable from the exchange to the street cabinet, copper cable from the street cabinet	Up to 80Mbps* 	
	<b>Service Availability Target</b>	<b>Lead Time</b>	
	99.75% 	30 to 50 days 	
	<b>Where is the service available?</b>	<b>Target time to fix faults?</b>	
	Limited to areas where BT has implemented Super-Fast Broadband	6 hours 	







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<b>Fibre Ethernet ** (EAD 10-1gb)</b>  (Ethernet Access Direct)	<b>How is it delivered?</b>	<b>Bandwidth</b>	<b>What you need to know</b> <ul style="list-style-type: none"> <li>• Dedicated connection with dedicated bandwidth</li> <li>• Symmetrical service - upload and download speeds the same</li> <li>• Easily expandable to increase bandwidth</li> <li>• Highest quality, expandable service at the highest price</li> <li>• Suitable for schools with high internet usage or schools with limited options for reasons of location</li> <li>• Subject to Fibre or duct available to premises</li> </ul>
	Fibre Optic Cable 	10Mbps to 1000Mbps (1Gbps) 	
	<b>Service Availability Target</b>	<b>Lead Time</b>	
	99.75% 	Subject to survey 	
	<b>Where is the service available?</b>	<b>Target time to fix faults?</b>	
	Universally available 	6 hours 	







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<b>LS</b>  (Learning Stream)	<b>How is it delivered?</b>	<b>Bandwidth</b>	<b>What you need to know</b> <ul style="list-style-type: none"> <li>• Dedicated connection with dedicated but low bandwidth</li> <li>• Symmetrical service - upload and download speeds are the same</li> <li>• A service specifically designed for schools with limited options due to their location</li> </ul>
	Copper and Fibre 	2Mbps 	
	<b>Service Availability Target</b>	<b>Lead Time</b>	
	99.75% 	Subject to survey 	
	<b>Where is the service available?</b>	<b>Target time to fix faults?</b>	
	BT Learning Stream Circuit 	6 hours 	







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<b>Wireless</b>  (Zycomm W3Z)	<b>How is it delivered?</b>	<b>Bandwidth</b>	<b>What you need to know</b> <ul style="list-style-type: none"> <li>• Delivered without a physical connection</li> <li>• Symmetrical service - upload and download speeds are the same</li> <li>• A potential solution for remote schools with limited options</li> </ul>
	Wireless 	20Mbps 	
	<b>Service Availability Target</b>	<b>Lead Time</b>	
	99.75% 	Subject to survey 	
	<b>Where is the service available?</b>	<b>Target time to fix faults?</b>	
	Subject to survey 	6 hours 	







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<b>Campus</b>  (Connection shared with a school on the same site)	<b>How is it delivered?</b>  Site specific 	<b>Bandwidth</b>  Site specific 	<b>What you need to know</b> <ul style="list-style-type: none"> <li>• A shared connection suitable only for schools that share the same site</li> <li>• School Interconnections supplied locally</li> <li>• Circuit type for the site will be one of those shown previously in this guide</li> </ul>
	<b>Service Availability Target</b>  N/A 	<b>Lead Time</b>  Subject to survey 	
	<b>Where is the service available?</b>  Sites with an existing campus network 	<b>Target time to fix faults?</b>  N/A 	

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# KCOM Guide to Circuit Types for East Midlands



Circuit Type	Full Name	How is it delivered?	Bandwidth	Where is the service available?	What is the target time to fix faults?	Service Availability Target	Lead Time	What you need to know
ADSL* and Bonded ADSL	Asymmetric Digital Subscriber Line	Copper cable	Up to 20Mbps* Bonded ADSL bonds up to 4 connections	Universally Available	48 hours	99.40%	30-50 days	<ul style="list-style-type: none"> <li>Actual bandwidth achieved is dependent on the distance from the telephone exchange</li> <li>Asymmetrical service – download speeds higher than upload speeds which may be very low</li> <li>No opportunity for bandwidth upgrades</li> <li>Low cost</li> <li>Only suitable for schools with very low internet usage or limited alternative options</li> <li>Possible to offer bonded service to get higher bandwidths</li> </ul>
MPF *	Metallic Path Facilities	Copper cable	Up to 10Mbps	Low cost circuits limited to telephone exchanges where Kcom has installed technology to exploit this service	6 hours	99.75%	30-50 days	<ul style="list-style-type: none"> <li>Dedicated bandwidth over a copper circuit</li> <li>Bandwidth achievable is dependent on distance from the exchange</li> <li>Symmetrical service - upload and download speeds the same</li> <li>Very limited opportunity to expand bandwidth</li> <li>Lower cost than fibre</li> <li>Suitable for schools with limited alternative options</li> </ul>
FTTC*	Fibre To The Cabinet	Fibre Optic Cable from the exchange to the street cabinet, copper cable from the street cabinet	Up to 80Mbps*	Limited to areas where BT has implemented Super-Fast Broadband	6 hours	99.75%	30-50 days	<ul style="list-style-type: none"> <li>Reliable mechanism to achieve good bandwidth</li> <li>Bandwidth figures are best estimates</li> <li>Asymmetrical service – download speeds higher than upload speeds</li> <li>Achievable speeds depend on distance from the cabinet and quality of the copper connection to the site</li> <li>No opportunity for bandwidth upgrades</li> <li>Lower cost than fibre</li> <li>Suitable for schools with moderate – high internet usage</li> <li>Suitable as a resilient emergency connection for fibre connected schools with high usage</li> </ul>
Fibre Ethernet ** (EAD 10-1gb)	Ethernet Access Direct	Fibre Optic Cable	10Mbps-1000Mbps (1Gbps)	Universally available	6 hours	99.75%	Subject to Survey	<ul style="list-style-type: none"> <li>Dedicated connection with dedicated bandwidth</li> <li>Symmetrical service - upload and download speeds the same</li> <li>Easily expandable to increase bandwidth</li> <li>Highest quality, expandable service at the highest price</li> <li>Suitable for schools with high internet usage or schools with limited options for reasons of location</li> <li>Subject to Fibre or duct available to premises</li> </ul>

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Circuit Type	Full Name	How is it delivered?	Bandwidth	Where is the service available?	What is the target time to fix faults?	Service Availability Target	Lead Time	What you need to know
LS	Learning Stream	Copper and Fibre	2Mbps	BT Learning Stream Circuit	6 hours	99.75%	Subject to Survey	<ul style="list-style-type: none"> <li>• Dedicated connection with dedicated but low bandwidth</li> <li>• Symmetrical service - upload and download speeds are the same</li> <li>• A service specifically designed for schools with limited options due to their location</li> </ul>
Wireless	Zycomm W3Z	Wireless	20Mbps	Subject to Survey	6 hours	99.75%	Subject to Survey	<ul style="list-style-type: none"> <li>• Delivered without a physical connection</li> <li>• Symmetrical service - upload and download speeds are the same</li> <li>• A potential solution for remote schools with limited options</li> </ul>
Campus	Connection shared with a school on the same site	Site specific	Site specific	Sites with an existing campus network	N/A	N/A	Subject to Survey	<ul style="list-style-type: none"> <li>• A shared connection suitable only for schools that share the same site</li> <li>• School interconnections supplied locally</li> <li>• Circuit type for the site will be one of the above</li> </ul>

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